

## The Carbon content of Commonly Used Solvents

## CARBON CONTENT OF OXYGENATED SOLVENTS

| Family                                      | Solvent   | CAS Number* | Carbon content, %m |
|---|---|-------------|--------------------|
| Alcohols                                    | Methanol  | 67-56-1     | 37.5               |
|   | Ethanol / Industrial Methylated Spirits (IMS) / Denatured Ethanol | 64-17-5     | 52.1               |
|   | n-Propanol  | 71-23-8     | 60.0               |
|   | Iso-Propanol  | 67-63-0     | 60.0               |
|   | n-Butanol   | 71-36-3     | 64.8               |
|   | Sec-Butanol   | 78-92-2     | 64.8               |
|   | Iso-Butanol   | 78-83-1     | 64.8               |
|   | Tert-Butanol  | 75-65-0     | 64.8               |
|   | Amyl Alcohol  | 71-41-0     | 68.1               |
|   | Iso-Amyl Alcohol  | 123-51-3    | 68.1               |
|   | Methyl Isobutyl Carbinol  | 108-11-2    | 70.5               |
|   | Diacetone Alcohol   | 123-42-2    | 62.0               |
| Hexylene Glycol                             | 107-41-5  | 61.0        |                    |
| Esters                                      | Methyl Acetate  | 79-20-9     | 48.6               |
|   | Ethyl Acetate   | 141-78-6    | 54.5               |
|   | n-Propyl Acetate  | 109-60-4    | 58.8               |
|   | Iso-Propyl Acetate  | 108-21-4    | 58.8               |
|   | n-Butyl Acetate   | 123-86-4    | 62.0               |
|   | Iso-Butyl Acetate   | 110-19-0    | 62.0               |
|   | Amyl Acetate  | 628-63-7    | 64.6               |
|   | n-Butyl Propionate  | 590-01-2    | 64.6               |
|   | Ethylene Glycol Diacetate   | 111-55-7    | 49.3               |
|   | Ethyl 3-Ethoxy Propionate   | 763-69-9    | 57.5               |
| 2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate | 25265-77-4  | 66.6        |                    |
| Ethers                                      | Tetrahydrofuran   | 109-99-9    | 66.6               |
|   | Diethyl Ether   | 60-29-7     | 64.8               |
|   | Diiso-Propyl Ether  | 108-20-3    | 70.5               |
| Glycol Ethers                               | Ethylene Glycol Mono Isopropyl Ether                              | 109-59-1    | 57.7               |
|   | Ethylene Glycol Mono Butyl Ether                                  | 111-76-2    | 61.0               |
|   | Diethylene Glycol Mono Methyl Ether                               | 111-77-3    | 50.0               |
|   | Diethylene Glycol Mono Ethyl Ether                                | 111-90-0    | 53.7               |
|   | Diethylene Glycol Mono Butyl Ether                                | 112-34-5    | 59.2               |
|   | Propylene Glycol Mono Methyl Ether                                | 107-98-2    | 53.3               |
|   | Propylene Glycol Mono Ethyl Ether                                 | 1569-02-4   | 57.7               |
|   | Propylene Glycol Mono n-Propyl Ether                              | 30136-13-1  | 61.0               |
|   | Propylene Glycol Mono Butyl Ether                                 | 29387-86-8  | 63.6               |
|   | Dipropylene Glycol Mono Methyl Ether                              | 34590-94-8  | 56.7               |
|   | Dipropylene Glycol Mono Ethyl Ether                               | 30025-38-8  | 59.2               |
| Dipropylene Glycol Mono Butyl Ether         | 29911-28-2  | 63.1        |                    |
| Glycol Ether Esters                         | Propylene Glycol Mono Methyl Ether Acetate                        | 108-65-6    | 54.5               |
|   | Propylene Glycol Mono Ethyl Ether Acetate                         | 54839-24-6  | 57.5               |
|   | Ethylene Glycol Mono Butyl Ether Acetate                          | 112-07-2    | 60.0               |
|   | Diethylene Glycol Mono Ethyl Ether Acetate                        | 112-15-2    | 54.5               |
|   | Diethylene Glycol Mono Butyl Ether Acetate                        | 124-17-4    | 58.8               |

\* The CAS Number is the Chemical Abstract Service Number - a number assigned to a chemical that identifies it world-wide.

|         |                         |          |      |
|---------|-------------------------|----------|------|
| Ketones | Acetone                 | 67-64-1  | 62.0 |
|         | Methyl Ethyl Ketone     | 78-93-3  | 66.6 |
|         | Methyl n-Propyl Ketone  | 107-87-9 | 69.7 |
|         | Methyl Iso-Butyl Ketone | 108-10-1 | 72.0 |
|         | Methyl Amyl Ketone      | 110-43-0 | 73.6 |
|         | Methyl Iso-Amyl Ketone  | 110-12-3 | 73.6 |
|         | Diethyl Ketone          | 96-22-0  | 69.7 |
|         | Diisobutyl Ketone       | 108-83-8 | 76.0 |
|         | Cyclohexanone           | 108-94-1 | 73.4 |
|         | Gamma-Butyrolactone     | 96-48-0  | 55.8 |
|         | Acetyl Acetone          | 123-54-6 | 60.0 |
|         | Isophorone              | 78-59-1  | 78.2 |

## CARBON CONTENT OF HYDROCARBON SOLVENTS

| Family                               | Solvent                                   | CAS Number*        | Carbon content, %m |
|--------------------------------------|---|--------------------|--------------------|
| Cycloparaffins                       | Cyclopentane                              | 287-92-3           | 85,6               |
|                                      | Cyclohexane                               | 110-82-7           | 85,6               |
|                                      | Methylcyclohexane                         | 108-87-2           | 85,6               |
| Aliphatics                           | Pentane Blend (n- & iso-pentane mixtures) | 109-66-0 / 78-78-4 | 83,3               |
|                                      | Hexane (technical grade)                  |                    | 84                 |
|                                      | Isohexane (technical grade)               |                    | 84                 |
|                                      | Heptane (technical grade, de-aromatised)  |                    | 84                 |
|                                      | Aliphatic de-aromatised solvent 40/65     |                    | 84                 |
|                                      | Aliphatic de-aromatised solvent 60/95     |                    | 84                 |
|                                      | Aliphatic de-aromatised solvent 80/95     |                    | 85                 |
|                                      | Aliphatic de-aromatised solvent 80/110    |                    | 85                 |
|                                      | Aliphatic de-aromatised solvent 100/140   |                    | 85                 |
|                                      | Aliphatic de-aromatised solvent 135/165   |                    | 85                 |
|                                      | De-aromatised Mineral Spirit 150/200      |                    | 85                 |
|                                      | De-aromatised Mineral Spirit 175/220      |                    | 85                 |
|                                      | De-aromatised Mineral Spirit 200/250      |                    | 85                 |
| De-aromatised Mineral Spirit 220/280 |   | 85                 |                    |
| De-aromatised Mineral Spirit 240/320 |   | 86                 |                    |
| Mineral Spirits                      | White Spirit 150/200 (Mineral Spirit)     |                    | 86                 |
|                                      | White Spirit 175/220 (Mineral Spirit)     |                    | 86                 |
|                                      | Heavy Mineral Spirit 200/250              |                    | 86                 |
|                                      | Heavy Mineral Spirit 240/320              |                    | 86                 |
| Aromatics                            | Toluene                                   | 108-88-3           | 91,3               |
|                                      | Xylene (isomer mix)                       | 1330-20-7          | 90,5               |
|                                      | Aromatic solvent 160/185                  |                    | 89                 |
|                                      | Aromatic solvent 180/215                  |                    | 89                 |
|                                      | Aromatic solvent 230/290                  |                    | 89                 |
| Isoparaffins                         | Isoparaffinic solvent 100/150             |                    | 85                 |
|                                      | Isoparaffinic solvent 150/190             |                    | 85                 |
|                                      | Isoparaffinic solvent 180/220             |                    | 85                 |
|                                      | Isoparaffinic solvent 200/300             |                    | 85                 |

\* The CAS Number is the Chemical Abstract Service Number - a number assigned to a chemical that identifies it world-wide. CAS numbers have not been included for the majority of hydrocarbons, since these can have more than one number assigned depending on the supplier.

DISCLAIMER: This document is produced by the European Solvents Industry Group. All advice, information and guidance given is accurate to the best of the knowledge of ESIG and is given in good faith. However, it remains at all times the responsibility of the reader/solvent user to ensure that this and other ESIG information and guidance materials are suitable for the intended situation or application. For further information please visit our website at [www.esig.org](http://www.esig.org).

### EUROPEAN SOLVENTS INDUSTRY GROUP

Avenue E. van Nieuwenhuysse 4, B-1160 Brussels, Belgium  
 Tel: +32 2 676 72 69 Fax: +32 2 676 72 16  
[esig@cefic.be](mailto:esig@cefic.be)

A sector group of Cefic

European Chemical Industry Council - Cefic aisbl

