

# BROMOMETHYL METHYL ETHER

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| Other names:         | Ether, bromomethyl methyl<br>Methane, bromomethoxy-<br>Methoxymethyl bromide |
| Inchi:               | InChI=1S/C2H5BrO/c1-4-2-3/h2H2,1H3                                           |
| InchiKey:            | JAMFGQBENKSWOF-UHFFFAOYSA-N                                                  |
| Formula:             | C2H5BrO                                                                      |
| SMILES:              | COCB <sub>r</sub>                                                            |
| Mol. weight [g/mol]: | 124.96                                                                       |

## Physical Properties

| Property code | Value   | Unit    | Source             |
|---------------|---------|---------|--------------------|
| af            | 0.3323  |         | Cheméo Relay (1.0) |
| gf            | -124.72 | kJ/mol  | Joback Method      |
| hf            | -167.15 | kJ/mol  | Cheméo Relay (1.0) |
| hfus          | 7.41    | kJ/mol  | Joback Method      |
| hvap          | 30.95   | kJ/mol  | Cheméo Relay (1.0) |
| ie            | 10.15   | eV      | Cheméo Relay (1.0) |
| log10ws       | -0.38   |         | Cheméo Relay (1.0) |
| logp          | 0.985   |         | Crippen Method     |
| mcvol         | 62.410  | ml/mol  | McGowan Method     |
| pc            | 5422.51 | kPa     | Joback Method      |
| tb            | 360.20  | K       | NIST Webbook       |
| tc            | 532.01  | K       | Cheméo Relay (1.0) |
| tf            | 187.25  | K       | Cheméo Relay (1.0) |
| vc            | 0.225   | m3/kmol | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 85.75  | J/mol×K | 333.74          | Joback Method |
| cpg           | 89.93  | J/mol×K | 364.90          | Joback Method |
| cpg           | 94.00  | J/mol×K | 396.07          | Joback Method |
| cpg           | 97.97  | J/mol×K | 427.23          | Joback Method |
| cpg           | 101.83 | J/mol×K | 458.40          | Joback Method |

|       |           |         |        |               |
|-------|-----------|---------|--------|---------------|
| cpg   | 105.58    | J/mol×K | 489.56 | Joback Method |
| cpg   | 109.22    | J/mol×K | 520.73 | Joback Method |
| dvisc | 0.0023445 | Pa×s    | 194.33 | Joback Method |
| dvisc | 0.0014253 | Pa×s    | 217.56 | Joback Method |
| dvisc | 0.0009538 | Pa×s    | 240.80 | Joback Method |
| dvisc | 0.0006851 | Pa×s    | 264.03 | Joback Method |
| dvisc | 0.0005191 | Pa×s    | 287.27 | Joback Method |
| dvisc | 0.0004100 | Pa×s    | 310.50 | Joback Method |
| dvisc | 0.0003347 | Pa×s    | 333.74 | Joback Method |

## Sources

|                                  |                                                                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b>           | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                     |
| <b>Crippen Method:</b>           | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                             |
| <b>Cheméo Relay (1.0):</b>       |                                                                                                                                               |
| <b>Cheméo Relay (1.0, beta):</b> |                                                                                                                                               |
| <b>NIST Webbook:</b>             | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C13057175&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13057175&amp;Units=SI</a> |
| <b>Joback Method:</b>            | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                         |
| <b>McGowan Method:</b>           | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                         |

## Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>af:</b>      | Acentric Factor                                 |
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>dvisc:</b>   | Dynamic viscosity                               |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>ie:</b>      | Ionization energy                               |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

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