

butyl methyl trisulfide

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| Inchi: | InChI=1S/C5H12S3/c1-3-4-5-7-8-6-2/h3-5H2,1-2H3 |
| InchiKey: | UERQNAZBAUOZKO-UHFFFAOYSA-N |
| Formula: | C5H12S3 |
| SMILES: | CCCCSSSC |
| Mol. weight [g/mol]: | 168.34 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 90.58 | kJ/mol | Joback Method |
| hf | -20.92 | kJ/mol | Joback Method |
| hfus | 21.10 | kJ/mol | Joback Method |
| hvap | 47.17 | kJ/mol | Joback Method |
| log10ws | -3.55 | | Crippen Method |
| logp | 3.446 | | Crippen Method |
| mcvol | 130.360 | ml/mol | McGowan Method |
| pc | 3686.49 | kPa | Joback Method |
| rinpol | 1241.00 | | NIST Webbook |
| rinpol | 1241.00 | | NIST Webbook |
| tb | 520.14 | K | Joback Method |
| tc | 758.40 | K | Joback Method |
| tf | 249.31 | K | Joback Method |
| vc | 0.477 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 258.08 | J/molxK | 520.14 | Joback Method |
| cpg | 269.75 | J/molxK | 559.85 | Joback Method |
| cpg | 280.84 | J/molxK | 599.56 | Joback Method |
| cpg | 291.33 | J/molxK | 639.27 | Joback Method |
| cpg | 301.21 | J/molxK | 678.98 | Joback Method |
| cpg | 310.47 | J/molxK | 718.69 | Joback Method |
| cpg | 319.09 | J/molxK | 758.40 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R63245&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

Legend

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|------------------|---|
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| h vap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| r in pol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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