

di-(3-Methoxybutyl)seberate

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|-----------------------------|---|
| Inchi: | InChI=1S/C18H34O6/c1-15(21-3)11-13-23-17(19)9-7-5-6-8-10-18(20)24-14-12-16(2)22-4 |
| InchiKey: | XGQWLZVUXLGDFS-UHFFFAOYSA-N |
| Formula: | C18H34O6 |
| SMILES: | <chem>COC(C)CCOC(=O)CCCCCCC(=O)OCCC(C)OC</chem> |
| Mol. weight [g/mol]: | 346.46 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -582.04 | kJ/mol | Joback Method |
| hf | -1179.45 | kJ/mol | Joback Method |
| hfus | 43.28 | kJ/mol | Joback Method |
| hvap | 78.02 | kJ/mol | Joback Method |
| log10ws | -3.48 | | Crippen Method |
| logp | 3.263 | | Crippen Method |
| mvol | 291.100 | ml/mol | McGowan Method |
| pc | 1212.36 | kPa | Joback Method |
| rinpol | 2239.00 | | NIST Webbook |
| rinpol | 2239.00 | | NIST Webbook |
| tb | 807.78 | K | Joback Method |
| tc | 993.49 | K | Joback Method |
| tf | 451.40 | K | Joback Method |
| vc | 1.115 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 912.35 | J/molxK | 807.78 | Joback Method |
| cpg | 929.50 | J/molxK | 838.73 | Joback Method |
| cpg | 945.56 | J/molxK | 869.68 | Joback Method |
| cpg | 960.52 | J/molxK | 900.64 | Joback Method |
| cpg | 974.39 | J/molxK | 931.59 | Joback Method |
| cpg | 987.14 | J/molxK | 962.54 | Joback Method |
| cpg | 998.78 | J/molxK | 993.49 | Joback Method |
| dvisc | 0.0006705 | Paxs | 451.40 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0003047 | Paxs | 510.80 | Joback Method |
| dvisc | 0.0001632 | Paxs | 570.19 | Joback Method |
| dvisc | 0.0000983 | Paxs | 629.59 | Joback Method |
| dvisc | 0.0000647 | Paxs | 688.99 | Joback Method |
| dvisc | 0.0000454 | Paxs | 748.38 | Joback Method |
| dvisc | 0.0000336 | Paxs | 807.78 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R542273&Units=SI |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | 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 |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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<https://www.chemeo.com/cid/46-389-0/di-3-Methoxybutyl-suberate.pdf>

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