

Bis(8-methylnonyl) hexanedioate

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|-----------------------------|--|
| Inchi: | InChI=1S/C26H50O4/c1-23(2)17-11-7-5-9-15-21-29-25(27)19-13-14-20-26(28)30-22-16- |
| InchiKey: | YKGYQYOQRGPFTO-UHFFFAOYSA-N |
| Formula: | C26H50O4 |
| SMILES: | CC(C)CCCCCOC(=O)CCCC(=O)OCCCCCCC(C)C |
| Mol. weight [g/mol]: | 426.67 |
| CAS: | 142-53-0 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|---------|----------------|
| gf | -304.68 | kJ/mol | Joback Method |
| hf | -1080.13 | kJ/mol | Joback Method |
| hfus | 61.62 | kJ/mol | Joback Method |
| hvap | 91.01 | kJ/mol | Joback Method |
| log10ws | -7.95 | | Crippen Method |
| logp | 7.626 | | Crippen Method |
| mcvol | 392.080 | ml/mol | McGowan Method |
| pc | 769.04 | kPa | Joback Method |
| tb | 945.98 | K | Joback Method |
| tc | 1162.69 | K | Joback Method |
| tf | 497.10 | K | Joback Method |
| vc | 1.528 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1345.96 | J/molxK | 945.98 | Joback Method |
| cpg | 1367.00 | J/molxK | 982.10 | Joback Method |
| cpg | 1386.38 | J/molxK | 1018.22 | Joback Method |
| cpg | 1404.14 | J/molxK | 1054.33 | Joback Method |
| cpg | 1420.33 | J/molxK | 1090.45 | Joback Method |
| cpg | 1435.00 | J/molxK | 1126.57 | Joback Method |
| cpg | 1448.19 | J/molxK | 1162.69 | Joback Method |
| dvisc | 0.0005428 | Paxs | 497.10 | Joback Method |
| dvisc | 0.0002121 | Paxs | 571.91 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001030 | Paxs | 646.73 | Joback Method |
| dvisc | 0.0000581 | Paxs | 721.54 | Joback Method |
| dvisc | 0.0000365 | Paxs | 796.35 | Joback Method |
| dvisc | 0.0000248 | Paxs | 871.17 | Joback Method |
| dvisc | 0.0000180 | Paxs | 945.98 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C142530&Units=SI |
| 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 |

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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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