

Bis-(beta-dimethylaminoethyl)succinate

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|-----------------------------|---|
| Other names: | bis[2-(dimethylamino)ethyl] succinate |
| Inchi: | InChI=1S/C12H24N2O4/c1-13(2)7-9-17-11(15)5-6-12(16)18-10-8-14(3)4/h5-10H2,1-4H3 |
| InchiKey: | JSINVKLVDNFTSU-UHFFFAOYSA-N |
| Formula: | C12H24N2O4 |
| SMILES: | CN(C)CCOC(=O)CCC(=O)OCCN(C)C |
| Mol. weight [g/mol]: | 260.33 |
| CAS: | 19249-04-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -196.12 | kJ/mol | Joback Method |
| hf | -645.55 | kJ/mol | Joback Method |
| hfus | 38.45 | kJ/mol | Joback Method |
| hvap | 64.70 | kJ/mol | Joback Method |
| log10ws | 0.29 | | Crippen Method |
| logp | -0.024 | | Crippen Method |
| mcvol | 214.780 | ml/mol | McGowan Method |
| pc | 1920.30 | kPa | Joback Method |
| tb | 651.42 | K | Joback Method |
| tc | 826.52 | K | Joback Method |
| tf | 434.26 | K | Joback Method |
| vc | 0.791 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 593.42 | J/molxK | 651.42 | Joback Method |
| cpg | 608.65 | J/molxK | 680.60 | Joback Method |
| cpg | 623.14 | J/molxK | 709.79 | Joback Method |
| cpg | 636.90 | J/molxK | 738.97 | Joback Method |
| cpg | 649.94 | J/molxK | 768.16 | Joback Method |
| cpg | 662.28 | J/molxK | 797.34 | Joback Method |
| cpg | 673.93 | J/molxK | 826.52 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C19249048&Units=SI |

Legend

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

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