

Succinic acid, 3,5-dinitro-4-methylbenzyl 2-methylhex-3-yl ester

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| Inchi: | InChI=1S/C19H26N2O8/c1-5-6-17(12(2)3)29-19(23)8-7-18(22)28-11-14-9-15(20(24)25)1 |
| InchiKey: | BZYDWRORUAESON-UHFFFAOYSA-N |
| Formula: | C19H26N2O8 |
| SMILES: | CCCC(OC(=O)CCC(=O)OCc1cc([N+](=O)[O-])c(C)c([N+](=O)[O-])c1)C(C)C |
| Mol. weight [g/mol]: | 410.42 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -209.00 | kJ/mol | Joback Method |
| hf | -755.05 | kJ/mol | Joback Method |
| hfus | 59.09 | kJ/mol | Joback Method |
| hvap | 112.87 | kJ/mol | Joback Method |
| log10ws | -6.33 | | Crippen Method |
| logp | 4.003 | | Crippen Method |
| mcvol | 304.530 | ml/mol | McGowan Method |
| pc | 1452.35 | kPa | Joback Method |
| rinpol | 2805.00 | | NIST Webbook |
| rinpol | 2805.00 | | NIST Webbook |
| tb | 1131.12 | K | Joback Method |
| tc | 1386.16 | K | Joback Method |
| tf | 769.41 | K | Joback Method |
| vc | 1.192 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1014.06 | J/molxK | 1131.12 | Joback Method |
| cpg | 1021.32 | J/molxK | 1173.63 | Joback Method |
| cpg | 1026.87 | J/molxK | 1216.13 | Joback Method |
| cpg | 1030.75 | J/molxK | 1258.64 | Joback Method |
| cpg | 1032.98 | J/molxK | 1301.15 | Joback Method |
| cpg | 1033.60 | J/molxK | 1343.65 | Joback Method |
| cpg | 1032.66 | J/molxK | 1386.16 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U382238&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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 |
| hvp: | 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 |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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