

L-rhamnose, acetylated diethyldithioacetal derivative

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|-----------------------------|--|
| Inchi: | InChI=1S/C18H30O8S2/c1-8-27-18(28-9-2)17(26-14(7)22)16(25-13(6)21)15(24-12(5)20) |
| InchiKey: | IGZAPMUTZWRKTE-XLUQRUARSA-N |
| Formula: | C18H30O8S2 |
| SMILES: | CCSC(SCC)C(OC(C)=O)C(OC(C)=O)C(OC(C)=O)C(C)OC(C)=O |
| Mol. weight [g/mol]: | 438.56 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -780.96 | kJ/mol | Joback Method |
| hf | -1336.71 | kJ/mol | Joback Method |
| hfus | 44.17 | kJ/mol | Joback Method |
| hvap | 103.98 | kJ/mol | Joback Method |
| log10ws | -3.63 | | Crippen Method |
| logp | 2.565 | | Crippen Method |
| mcvol | 326.940 | ml/mol | McGowan Method |
| pc | 1384.02 | kPa | Joback Method |
| rinpol | 2226.00 | | NIST Webbook |
| rinpol | 2226.00 | | NIST Webbook |
| tb | 1051.76 | K | Joback Method |
| tc | 1288.34 | K | Joback Method |
| tf | 575.06 | K | Joback Method |
| vc | 1.218 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1047.17 | J/mol×K | 1051.76 | Joback Method |
| cpg | 1054.69 | J/mol×K | 1091.19 | Joback Method |
| cpg | 1059.93 | J/mol×K | 1130.62 | Joback Method |
| cpg | 1062.86 | J/mol×K | 1170.05 | Joback Method |
| cpg | 1063.42 | J/mol×K | 1209.48 | Joback Method |
| cpg | 1061.59 | J/mol×K | 1248.91 | Joback Method |
| cpg | 1057.31 | J/mol×K | 1288.34 | 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=R502879&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 |
| 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 |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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