

GA35-11 «beta»-O-glucoside, permethylated

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|-----------------------------|--|
| Inchi: | InChI=1S/C31H46O11/c1-15-12-30-13-16(15)11-17(40-27-23(38-7)22(37-6)21(36-5)18(4 |
| InchiKey: | FGUYIUWNDHCIDU-SRGZBCOLSA-N |
| Formula: | C31H46O11 |
| SMILES: | C=C1CC23CC1CC(OC1OC(COC)C(OC)C(OC)C1OC)C2C12CCC(OC)C(C)(C(=O)O1)C |
| Mol. weight [g/mol]: | 594.69 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|---------|----------------|
| gf | -669.68 | kJ/mol | Joback Method |
| hf | -1749.75 | kJ/mol | Joback Method |
| hfus | 68.25 | kJ/mol | Joback Method |
| hvap | 116.05 | kJ/mol | Joback Method |
| log10ws | -3.30 | | Crippen Method |
| logp | 2.290 | | Crippen Method |
| mcvol | 434.160 | ml/mol | McGowan Method |
| pc | 846.03 | kPa | Joback Method |
| rinpol | 3415.00 | | NIST Webbook |
| tb | 1265.52 | K | Joback Method |
| tc | 1556.47 | K | Joback Method |
| tf | 907.53 | K | Joback Method |
| vc | 1.625 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1983.29 | J/molxK | 1265.52 | Joback Method |
| cpg | 2042.27 | J/molxK | 1314.01 | Joback Method |
| cpg | 2105.39 | J/molxK | 1362.50 | Joback Method |
| cpg | 2173.28 | J/molxK | 1410.99 | Joback Method |
| cpg | 2246.58 | J/molxK | 1459.48 | Joback Method |
| cpg | 2325.91 | J/molxK | 1507.97 | Joback Method |
| cpg | 2411.90 | J/molxK | 1556.47 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R297522&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 |
| 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 |
| mccvol: | 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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