

L-(-)-Fucose, aldonitrile, tetraacetate

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|-----------------------------|--|
| Inchi: | InChI=1S/C14H19NO8/c1-7(20-8(2)16)13(22-10(4)18)14(23-11(5)19)12(6-15)21-9(3)17/ |
| InchiKey: | MMUJVSMPJMQIMU-UHFFFAOYSA-N |
| Formula: | C14H19NO8 |
| SMILES: | CC(=O)OC(C)C(OC(C)=O)C(OC(C)=O)C(C#N)OC(C)=O |
| Mol. weight [g/mol]: | 329.30 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -745.26 | kJ/mol | Joback Method |
| hf | -1167.73 | kJ/mol | Joback Method |
| hfus | 30.58 | kJ/mol | Joback Method |
| hvap | 92.31 | kJ/mol | Joback Method |
| log10ws | -1.45 | | Crippen Method |
| logp | 0.257 | | Crippen Method |
| mvol | 239.260 | ml/mol | McGowan Method |
| pc | 1778.84 | kPa | Joback Method |
| rinpol | 1720.40 | | NIST Webbook |
| rinpol | 1720.40 | | NIST Webbook |
| tb | 925.20 | K | Joback Method |
| tc | 1141.12 | K | Joback Method |
| tf | 541.17 | K | Joback Method |
| vc | 0.917 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 732.37 | J/molxK | 925.20 | Joback Method |
| cpg | 741.72 | J/molxK | 961.19 | Joback Method |
| cpg | 749.74 | J/molxK | 997.17 | Joback Method |
| cpg | 756.40 | J/molxK | 1033.16 | Joback Method |
| cpg | 761.67 | J/molxK | 1069.14 | Joback Method |
| cpg | 765.52 | J/molxK | 1105.13 | Joback Method |
| cpg | 767.92 | J/molxK | 1141.12 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U380432&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |

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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