

Ethyl

3-chloro-5-formyl-4,6-dihydroxy-2-methylbenzoate

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|----------------------|--|
| Inchi: | InChI=1S/C11H11ClO5/c1-3-17-11(16)7-5(2)8(12)10(15)6(4-13)9(7)14/h4,14-15H,3H2,1 |
| InchiKey: | QWBSIYICLWCIDS-UHFFFAOYSA-N |
| Formula: | C11H11ClO5 |
| SMILES: | CCOC(=O)c1c(C)c(Cl)c(O)c(C=O)c1O |
| Mol. weight [g/mol]: | 258.65 |
| CAS: | 57857-81-5 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -529.35 | kJ/mol | Joback Method |
| hf | -768.99 | kJ/mol | Joback Method |
| hfus | 37.96 | kJ/mol | Joback Method |
| hvap | 90.63 | kJ/mol | Joback Method |
| log10ws | -2.63 | | Crippen Method |
| logp | 2.049 | | Crippen Method |
| mcvol | 175.080 | ml/mol | McGowan Method |
| pc | 3872.29 | kPa | Joback Method |
| tb | 816.32 | K | Joback Method |
| tc | 1050.01 | K | Joback Method |
| tf | 645.23 | K | Joback Method |
| vc | 0.566 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 468.30 | J/molxK | 816.32 | Joback Method |
| cpg | 513.12 | J/molxK | 1011.06 | Joback Method |
| cpg | 504.26 | J/molxK | 972.11 | Joback Method |
| cpg | 495.45 | J/molxK | 933.16 | Joback Method |
| cpg | 486.59 | J/molxK | 894.22 | Joback Method |
| cpg | 477.57 | J/molxK | 855.27 | Joback Method |
| cpg | 522.11 | J/molxK | 1050.01 | Joback Method |
| dvisc | 0.0000007 | Paxs | 816.32 | Joback Method |
| dvisc | 0.0000010 | Paxs | 787.80 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000014 | Paxs | 759.29 | Joback Method |
| dvisc | 0.0000020 | Paxs | 730.77 | Joback Method |
| dvisc | 0.0000029 | Paxs | 702.26 | Joback Method |
| dvisc | 0.0000044 | Paxs | 673.75 | Joback Method |
| dvisc | 0.0000069 | Paxs | 645.23 | 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=C57857815&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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