

Succinic acid, isobutyl 2,4,5-trifluorobenzyl ester

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| Inchi: | InChI=1S/C15H17F3O4/c1-9(2)7-21-14(19)3-4-15(20)22-8-10-5-12(17)13(18)6-11(10)16 |
| InchiKey: | YHYKXSBUXQMPP-UHFFFAOYSA-N |
| Formula: | C15H17F3O4 |
| SMILES: | CC(C)COC(=O)CCC(=O)OCc1cc(F)c(F)cc1F |
| Mol. weight [g/mol]: | 318.29 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -895.77 | kJ/mol | Joback Method |
| hf | -1234.02 | kJ/mol | Joback Method |
| hfus | 38.77 | kJ/mol | Joback Method |
| hvap | 68.72 | kJ/mol | Joback Method |
| log10ws | -4.18 | | Crippen Method |
| logp | 3.127 | | Crippen Method |
| mvol | 218.640 | ml/mol | McGowan Method |
| pc | 1726.03 | kPa | Joback Method |
| rinpol | 1829.00 | | NIST Webbook |
| rinpol | 1829.00 | | NIST Webbook |
| tb | 734.17 | K | Joback Method |
| tc | 922.85 | K | Joback Method |
| tf | 453.88 | K | Joback Method |
| vc | 0.864 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 615.82 | J/mol×K | 734.17 | Joback Method |
| cpg | 628.99 | J/mol×K | 765.62 | Joback Method |
| cpg | 641.37 | J/mol×K | 797.06 | Joback Method |
| cpg | 652.96 | J/mol×K | 828.51 | Joback Method |
| cpg | 663.76 | J/mol×K | 859.95 | Joback Method |
| cpg | 673.78 | J/mol×K | 891.40 | Joback Method |
| cpg | 683.01 | J/mol×K | 922.85 | 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=U382218&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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