

Lauric acid, salicylidene hydrazide

Inchi: InChI=1S/C19H30N2O2/c1-2-3-4-5-6-7-8-9-10-15-19(23)21-20-16-17-13-11-12-14-18(17)
InchiKey: DJDDAGSFDDOTRY-CAPFRKAQSA-N
Formula: C19H30N2O2
SMILES: CCCCCCCCCC(=O)NN=Cc1ccccc1O
Mol. weight [g/mol]: 318.45
CAS: 116373-73-0

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| hf | -353.16 | kJ/mol | Joback Method |
| hvap | 89.67 | kJ/mol | Joback Method |
| log10ws | -5.65 | | Crippen Method |
| logp | 4.763 | | Crippen Method |
| mvol | 277.910 | ml/mol | McGowan Method |
| pc | 1489.58 | kPa | Joback Method |
| tb | 922.14 | K | Joback Method |
| tc | 1139.79 | K | Joback Method |

Sources

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C116373730&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

hf: Enthalpy of formation 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |

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