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: CCCCCCCCCCCC(=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
mcvol	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

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C116373730&Units=SI

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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