

2-Phenylbutyramide, N-octadecyl-

Inchi: InChI=1S/C28H49NO/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-22-25-29-28(30)27(4-
InchiKey: INQGIWFGVCMUTD-UHFFFAOYSA-N
Formula: C28H49NO
SMILES: CCCCCCCCCCCCCCCCCCN=C(O)C(CC)c1ccccc1
Mol. weight [g/mol]: 415.69

Physical Properties

Property code	Value	Unit	Source
hf	-469.80	kJ/mol	Joback Method
hvap	99.88	kJ/mol	Joback Method
log10ws	-9.59		Crippen Method
logp	9.398		Crippen Method
mcvol	393.170	ml/mol	McGowan Method
pc	782.43	kPa	Joback Method
rinpol	1348.00		NIST Webbook
rinpol	1348.00		NIST Webbook
tb	1035.02	K	Joback Method
tc	1274.56	K	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=U415220&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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