2-Naphthamide, 1-hydroxy-n-octadecyl-

Other names:	1-hydroxy-N-octadecylnaphthalene-2-carboxamide
Inchi:	InChI=1S/C29H45NO2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-19-24-30-29(32)27-23-2
InchiKey:	BKWIMUORHSANHY-UHFFFAOYSA-N
Formula:	C29H45NO2
SMILES:	CCCCCCCCCCCCCCCCCCN=C(O)c1ccc2ccccc2c1O
Mol. weight [g/mol]:	439.67
CAS:	20043-92-9

Physical Properties

Property code	Value	Unit	Source
hf	-482.87	kJ/mol	Joback Method
hvap	117.81	kJ/mol	Joback Method
log10ws	-9.83		Crippen Method
logp	9.111		Crippen Method
mcvol	393.670	ml/mol	McGowan Method
pc	918.27	kPa	Joback Method
tb	1162.92	K	Joback Method
tc	1439.51	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C20043929&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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