

Carbonic acid, monoamide, N-octadecyl-, decyl ester

Inchi:	InChI=1S/C29H59NO2/c1-3-5-7-9-11-13-14-15-16-17-18-19-20-21-23-25-27-30-29(31)32
InchiKey:	UDYZYLPXUQIYGL-UHFFFAOYSA-N
Formula:	C29H59NO2
SMILES:	CCCCCCCCCCCCCCCCCN=C(O)CCCCCCCCCCC
Mol. weight [g/mol]:	453.78

Physical Properties

Property code	Value	Unit	Source
hf	-853.91	kJ/mol	Joback Method
hvap	102.63	kJ/mol	Joback Method
log10ws	-10.53		Crippen Method
logp	10.319		Crippen Method
mcvol	436.890	ml/mol	McGowan Method
pc	616.65	kPa	Joback Method
rinpol	1610.00		NIST Webbook
rinpol	1610.00		NIST Webbook
tb	1054.08	K	Joback Method
tc	1335.10	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415190&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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