

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

Inchi:	InChI=1S/C14H29NO2/c1-3-5-6-7-8-9-10-11-12-15-14(16)17-13-4-2/h3-13H2,1-2H3,(H,1
InchiKey:	XGQDBFJGSJWJRK-UHFFFAOYSA-N
Formula:	C14H29NO2
SMILES:	CCCCCCCCCNC(=O)OCCC
Mol. weight [g/mol]:	243.39

Physical Properties

Property code	Value	Unit	Source
gf	-77.53	kJ/mol	Joback Method
hf	-523.62	kJ/mol	Joback Method
hfus	39.90	kJ/mol	Joback Method
hvap	62.35	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	4.263		Crippen Method
mvol	225.540	ml/mol	McGowan Method
pc	1596.17	kPa	Joback Method
rinpol	2031.00		NIST Webbook
rinpol	2031.00		NIST Webbook
tb	646.18	K	Joback Method
tc	817.40	K	Joback Method
tf	372.36	K	Joback Method
vc	0.878	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	627.35	J/molxK	646.18	Joback Method
cpg	644.05	J/molxK	674.72	Joback Method
cpg	660.01	J/molxK	703.25	Joback Method
cpg	675.25	J/molxK	731.79	Joback Method
cpg	689.78	J/molxK	760.33	Joback Method
cpg	703.63	J/molxK	788.86	Joback Method
cpg	716.80	J/molxK	817.40	Joback Method

Sources

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=U415255&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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