

Carbanilic acid, n-heptyl ester

Other names:	Carbamic acid, N-phenyl-, heptyl ester
Inchi:	InChI=1S/C14H21NO2/c1-2-3-4-5-9-12-17-14(16)15-13-10-7-6-8-11-13/h6-8,10-11H,2-5
InchiKey:	OJXUXLGVKNOXFM-UHFFFAOYSA-N
Formula:	C14H21NO2
SMILES:	CCCCCCCOC(=O)Nc1cccc1
Mol. weight [g/mol]:	235.32
CAS:	109562-39-2

Physical Properties

Property code	Value	Unit	Source
gf	34.88	kJ/mol	Joback Method
hf	-287.09	kJ/mol	Joback Method
hfus	33.94	kJ/mol	Joback Method
hvap	64.63	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	4.205		Crippen Method
mcvol	201.780	ml/mol	McGowan Method
pc	2119.73	kPa	Joback Method
tb	672.86	K	Joback Method
tc	873.38	K	Joback Method
tf	398.78	K	Joback Method
vc	0.770	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	549.62	J/molxK	672.86	Joback Method
cpg	565.43	J/molxK	706.28	Joback Method
cpg	580.31	J/molxK	739.70	Joback Method
cpg	594.29	J/molxK	773.12	Joback Method
cpg	607.39	J/molxK	806.54	Joback Method
cpg	619.65	J/molxK	839.96	Joback Method
cpg	631.08	J/molxK	873.38	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C109562392&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/112-783-8/Carbanilic-acid-n-heptyl-ester.pdf>

Generated by Cheméo on 2024-04-27 10:52:22.314748167 +0000 UTC m=+16504391.235325483.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.