

Carbamic acid, phenyl-, decyl ester

Other names:	Carbanilic acid, n-decyl ester
Inchi:	InChI=1S/C17H27NO2/c1-2-3-4-5-6-7-8-12-15-20-17(19)18-16-13-10-9-11-14-16/h9-11,17-19
InchiKey:	GCAJWNIRJIYNAK-UHFFFAOYSA-N
Formula:	C17H27NO2
SMILES:	CCCCCCCCCOC(=O)Nc1ccccc1
Mol. weight [g/mol]:	277.40
CAS:	7504-86-1

Physical Properties

Property code	Value	Unit	Source
gf	60.14	kJ/mol	Joback Method
hf	-349.01	kJ/mol	Joback Method
hfus	41.71	kJ/mol	Joback Method
hvap	71.30	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	5.376		Crippen Method
mcvol	244.050	ml/mol	McGowan Method
pc	1652.46	kPa	Joback Method
tb	741.50	K	Joback Method
tc	936.69	K	Joback Method
tf	432.59	K	Joback Method
vc	0.939	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	714.51	J/molxK	741.50	Joback Method
cpg	731.31	J/molxK	774.03	Joback Method
cpg	747.11	J/molxK	806.56	Joback Method
cpg	761.94	J/molxK	839.09	Joback Method
cpg	775.84	J/molxK	871.62	Joback Method
cpg	788.84	J/molxK	904.16	Joback Method
cpg	800.98	J/molxK	936.69	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7504861&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

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