

Carbetamide

Other names:

(Phenylcarbamoyloxy)-2-N-ethylpropionamide
(R)-N-Ethyl-2-(((phenylamino)carbonyl)oxy)propanamide
1-(Ethylcarbamoyl)ethyl phenylcarbamate, (R)-
11,561 RP
11561RP
2-Phenyl-carbamoyloxy-N-aethyl-propionamid
Carbanilic acid, (1-ethylcarbamoyl)ethyl ester, D-(-)-
Carbetamex
Carbetamid
Carbethamide
D-(-)-1-(Ethylcarbamoyl)ethyl phenylcarbamate
D-N-Ethylacetamide carbanilate
D-N-Ethyllactamide carbanilate
Lactamide, N-ethyl-, carbanilate (ester), D-
Legurame
Legurame PM
N-Phenyl-1-(ethylcarbamoyl-1)-ethylcarbamate, D isomer
Propanamide, N-ethyl-2-[[[(phenylamino)carbonyl]oxy]-, (R)-
RP 11561
d-N-Ethyllactamide carbanilate (ester)

Inchi:

InChI=1S/C12H16N2O3/c1-3-13-11(15)9(2)17-12(16)14-10-7-5-4-6-8-10/h4-9H,3H2,1-2H

InchiKey:

AMRQXHFXNZFDCH-UHFFFAOYSA-N

Formula:

C12H16N2O3

SMILES:

CCNC(=O)C(C)OC(=O)Nc1ccccc1

Mol. weight [g/mol]:

236.27

CAS:

16118-49-3

Physical Properties

Property code	Value	Unit	Source
gf	-23.93	kJ/mol	Joback Method
hf	-310.20	kJ/mol	Joback Method
hfus	31.94	kJ/mol	Joback Method
hvap	72.97	kJ/mol	Joback Method
log10ws	-1.83		Estimated Solubility Method
log10ws	-1.83		Aqueous Solubility Prediction Method

logp	1.760		Crippen Method
mvol	185.150	ml/mol	McGowan Method
pc	2781.78	kPa	Joback Method
tb	730.70	K	Joback Method
tc	946.62	K	Joback Method
tf	463.83	K	Joback Method
vc	0.694	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	514.90	J/mol×K	730.70	Joback Method
cpg	527.98	J/mol×K	766.69	Joback Method
cpg	540.10	J/mol×K	802.67	Joback Method
cpg	551.29	J/mol×K	838.66	Joback Method
cpg	561.57	J/mol×K	874.65	Joback Method
cpg	570.98	J/mol×K	910.63	Joback Method
cpg	579.54	J/mol×K	946.62	Joback Method

Sources

Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C16118493&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

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
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
tf:	Normal melting (fusion) point
vc:	Critical Volume

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