

Acetanilide, 2'-carbamoyl-2-chloro-

Inchi:	InChI=1S/C9H9ClN2O2/c10-5-8(13)12-7-4-2-1-3-6(7)9(11)14/h1-4H,5H2,(H2,11,14)(H,12)
InchiKey:	LCDQTZCLXUMOGO-UHFFFAOYSA-N
Formula:	C9H9ClN2O2
SMILES:	NC(=O)c1ccccc1NC(=O)CCl
Mol. weight [g/mol]:	212.63
CAS:	21721-78-8

Physical Properties

Property code	Value	Unit	Source
gf	13.75	kJ/mol	Joback Method
hf	-157.67	kJ/mol	Joback Method
hfus	30.41	kJ/mol	Joback Method
hvap	73.52	kJ/mol	Joback Method
log10ws	-2.00		Crippen Method
logp	0.963		Crippen Method
mcvol	149.250	ml/mol	McGowan Method
pc	3872.29	kPa	Joback Method
tb	704.85	K	Joback Method
tc	942.04	K	Joback Method
tf	495.83	K	Joback Method
vc	0.556	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	365.70	J/molxK	704.85	Joback Method
cpg	375.54	J/molxK	744.38	Joback Method
cpg	384.57	J/molxK	783.91	Joback Method
cpg	392.83	J/molxK	823.45	Joback Method
cpg	400.34	J/molxK	862.98	Joback Method
cpg	407.16	J/molxK	902.51	Joback Method
cpg	413.32	J/molxK	942.04	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=C21721788&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

Latest version available from:

<https://www.chemeo.com/cid/56-856-0/Acetanilide-2-carbamoyl-2-chloro.pdf>

Generated by Cheméo on 2024-04-17 16:41:28.127502053 +0000 UTC m=+15661337.048079364.

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