

1-Adamantanecarboxamide, N-(3-chlorophenyl)-

Inchi: InChI=1S/C17H20ClNO/c18-14-2-1-3-15(7-14)19-16(20)17-8-11-4-12(9-17)6-13(5-11)10

InchiKey: OWEPCGATVXVIDJ-UHFFFAOYSA-N

Formula: C17H20ClNO

SMILES: O=C(Nc1cccc(Cl)c1)C12CC3CC(CC(C3)C1)C2

Mol. weight [g/mol]: 289.80

Physical Properties

Property code	Value	Unit	Source
gf	300.53	kJ/mol	Joback Method
hf	-36.86	kJ/mol	Joback Method
hfus	31.41	kJ/mol	Joback Method
hvap	72.39	kJ/mol	Joback Method
log10ws	-4.84		Crippen Method
logp	4.495		Crippen Method
mvol	217.840	ml/mol	McGowan Method
pc	2338.29	kPa	Joback Method
rinpol	2532.00		NIST Webbook
rinpol	2532.00		NIST Webbook
tb	781.55	K	Joback Method
tc	1030.94	K	Joback Method
tf	522.76	K	Joback Method
vc	0.830	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	668.11	J/mol×K	781.55	Joback Method
cpg	686.93	J/mol×K	823.11	Joback Method
cpg	705.13	J/mol×K	864.68	Joback Method
cpg	723.04	J/mol×K	906.24	Joback Method
cpg	740.96	J/mol×K	947.81	Joback Method
cpg	759.21	J/mol×K	989.37	Joback Method
cpg	778.12	J/mol×K	1030.94	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=U307467&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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