m-Chlorobenzyliden-5,6,7,8-tetrahydronaphthyl-2-

Inchi: InChI=1S/C19H16ClN/c20-19-7-3-4-14(11-19)10-18(13-21)17-9-8-15-5-1-2-6-16(15)12-1
InchiKey: RWAZHMKODREWJA-VCHYOVAHSA-N
Formula: C19H16ClN
SMILES: N#CC(=Cc1cccc(Cl)c1)c1ccc2c(c1)CCCC2
Mol. weight [g/mol]: 293.79
CAS: 21848-13-5

Physical Properties

Property code	Value	Unit	Source
gf	554.31	kJ/mol	Joback Method
hf	346.71	kJ/mol	Joback Method
hfus	31.44	kJ/mol	Joback Method
hvap	79.72	kJ/mol	Joback Method
log10ws	-6.55		Crippen Method
logp	5.283		Crippen Method
mcvol	229.510	ml/mol	McGowan Method
pc	1989.43	kPa	Joback Method
tb	861.65	K	Joback Method
tc	1127.21	K	Joback Method
tf	488.82	K	Joback Method
vc	0.889	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	640.62	J/mol×K	861.65	Joback Method
cpg	654.87	J/mol×K	905.91	Joback Method
cpg	668.15	J/mol×K	950.17	Joback Method
cpg	680.62	J/mol×K	994.43	Joback Method
cpg	692.47	J/mol×K	1038.69	Joback Method
cpg	703.87	J/mol×K	1082.95	Joback Method
cpg	715.00	J/mol×K	1127.21	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C21848135&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
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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