p-Methoxybenzyliden-5,6,7,8-tetrahydronaphthyl-

Inchi: InChI=1S/C20H19NO/c1-22-20-10-6-15(7-11-20)12-19(14-21)18-9-8-16-4-2-3-5-17(16)13
InchiKey: CWFDRPBWGQJNBB-XDHOZWIPSA-N
Formula: C20H19NO
SMILES: COc1ccc(C=C(C#N)c2ccc3c(c2)CCCC3)cc1
Mol. weight [g/mol]: 289.37
CAS: 21848-16-8

Physical Properties

Property code	Value	Unit	Source
chs	-10682.00	kJ/mol	NIST Webbook
gf	469.66	kJ/mol	Joback Method
hf	209.59	kJ/mol	Joback Method
hfs	96.20	kJ/mol	NIST Webbook
hfus	31.02	kJ/mol	Joback Method
hvap	79.97	kJ/mol	Joback Method
log10ws	-5.98		Crippen Method
logp	4.638		Crippen Method
mcvol	237.230	ml/mol	McGowan Method
pc	1861.11	kPa	Joback Method
tb	869.52	K	Joback Method
tc	1124.38	K	Joback Method
tf	492.40	K	Joback Method
vc	0.914	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	700.78	J/mol×K	869.52	Joback Method
cpg	715.94	J/mol×K	912.00	Joback Method
cpg	729.99	J/mol×K	954.47	Joback Method
cpg	743.06	J/mol×K	996.95	Joback Method
cpg	755.27	J/mol×K	1039.43	Joback Method
cpg	766.78	J/mol×K	1081.90	Joback Method
cpg	777.69	J/mol×K	1124.38	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C21848168&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase 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