O-nitro carbanilic acid, l-menthyl ester

Inchi: InChI=1S/C17H24N2O4/c1-11(2)13-9-8-12(3)16(10-13)23-17(20)18-14-6-4-5-7-15(14)19
InchiKey: GVUNJXKRYBHIQK-UHFFFAOYSA-N
Formula: C17H24N2O4
SMILES: CC(C)C1CCC(C)C(OC(=O)Nc2ccccc2[N+](=O)[O-])C1
Mol. weight [g/mol]: 320.38

Physical Properties

Property code	Value	Unit	Source
gf	92.65	kJ/mol	Joback Method
hf	-362.88	kJ/mol	Joback Method
hfus	43.14	kJ/mol	Joback Method
hvap	87.98	kJ/mol	Joback Method
log10ws	-5.44		Crippen Method
logp	4.604		Crippen Method
mcvol	250.610	ml/mol	McGowan Method
pc	1864.33	kPa	Joback Method
tb	908.09	K	Joback Method
tc	1151.45	K	Joback Method
tf	572.62	K	Joback Method
vc	0.946	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	832.41	J/mol×K	908.09	Joback Method
cpg	847.60	J/mol×K	948.65	Joback Method
cpg	861.08	J/mol×K	989.21	Joback Method
cpg	872.89	J/mol×K	1029.77	Joback Method
cpg	883.08	J/mol×K	1070.33	Joback Method
cpg	891.68	J/mol×K	1110.89	Joback Method
cpg	898.76	J/mol×K	1151.45	Joback Method

Sources

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=B6002464&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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