Sarcosine, N-(4-nitrobenzoyl)-, nonyl ester

Inchi: InChI=1S/C19H28N2O5/c1-3-4-5-6-7-8-9-14-26-18(22)15-20(2)19(23)16-10-12-17(13-11
InchiKey: WHGAPBZZOFDLPC-UHFFFAOYSA-N
Formula: C19H28N2O5
SMILES: CCCCCCCCCOC(=O)CN(C)C(=O)c1ccc([N+](=O)[O-])cc1
Mol. weight [g/mol]: 364.44

Physical Properties

Property code	Value	Unit	Source
gf	-4.63	kJ/mol	Joback Method
hf	-511.04	kJ/mol	Joback Method
hfus	57.39	kJ/mol	Joback Method
hvap	95.36	kJ/mol	Joback Method
log10ws	-5.31		Crippen Method
logp	3.961		Crippen Method
mcvol	291.220	ml/mol	McGowan Method
pc	1471.36	kPa	Joback Method
rinpol	3002.00		NIST Webbook
tb	960.22	K	Joback Method
tc	1182.55	K	Joback Method
tf	641.00	K	Joback Method
vc	1.121	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	944.56	J/mol×K	960.22	Joback Method
cpg	957.86	J/mol×K	997.28	Joback Method
cpg	970.01	J/mol×K	1034.33	Joback Method
cpg	981.07	J/mol×K	1071.39	Joback Method
cpg	991.10	J/mol×K	1108.44	Joback Method
cpg	1000.17	J/mol×K	1145.50	Joback Method
cpg	1008.33	J/mol×K	1182.55	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=U321288&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume