

Sarcosine, N-(2-chlorobenzoyl)-, decyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C20H30ClNO3/c1-3-4-5-6-7-8-9-12-15-25-19(23)16-22(2)20(24)17-13-10-11-1

ZNCTXOPPEHUQQW-UHFFFAOYSA-N

C20H30ClNO3

CCCCCCCCCOC(=O)CN(C)C(=O)c1ccccc1Cl

367.91

Physical Properties

Property code	Value	Unit	Source
gf	-43.69	kJ/mol	Joback Method
hf	-536.66	kJ/mol	Joback Method
hfus	52.81	kJ/mol	Joback Method
hvap	85.38	kJ/mol	Joback Method
log10ws	-5.77		Crippen Method
logp	5.096		Crippen Method
mcvol	300.130	ml/mol	McGowan Method
pc	1320.39	kPa	Joback Method
rinpol	2754.00		NIST Webbook
rinpol	2754.00		NIST Webbook
tb	868.69	K	Joback Method
tc	1072.72	K	Joback Method
tf	538.58	K	Joback Method
vc	1.145	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	918.44	J/molxK	868.69	Joback Method
cpg	933.93	J/molxK	902.70	Joback Method
cpg	948.33	J/molxK	936.70	Joback Method
cpg	961.70	J/molxK	970.71	Joback Method
cpg	974.08	J/molxK	1004.71	Joback Method
cpg	985.51	J/molxK	1038.72	Joback Method
cpg	996.06	J/molxK	1072.72	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=U321210&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.cheméo.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
rlnpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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