

Succinic acid, 4-chloro-2-nitrobenzyl nonyl ester

Inchi:	InChI=1S/C20H28ClNO6/c1-2-3-4-5-6-7-8-13-27-19(23)11-12-20(24)28-15-16-9-10-17(2)
InchiKey:	SKGPVYYEGSIIFT-UHFFFAOYSA-N
Formula:	C20H28ClNO6
SMILES:	CCCCCCCCCOC(=O)CCC(=O)OCc1ccc(Cl)cc1[N+](=O)[O-]
Mol. weight [g/mol]:	413.89

Physical Properties

Property code	Value	Unit	Source
gf	-233.55	kJ/mol	Joback Method
hf	-758.64	kJ/mol	Joback Method
hfus	61.95	kJ/mol	Joback Method
hvap	103.00	kJ/mol	Joback Method
log10ws	-6.85		Crippen Method
logp	5.365		Crippen Method
mcvol	313.440	ml/mol	McGowan Method
pc	1303.29	kPa	Joback Method
rinpol	2941.00		NIST Webbook
rinpol	2941.00		NIST Webbook
tb	1035.49	K	Joback Method
tc	1269.05	K	Joback Method
tf	684.47	K	Joback Method
vc	1.226	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1007.50	J/mol×K	1035.49	Joback Method
cpg	1018.65	J/mol×K	1074.42	Joback Method
cpg	1028.37	J/mol×K	1113.34	Joback Method
cpg	1036.72	J/mol×K	1152.27	Joback Method
cpg	1043.73	J/mol×K	1191.20	Joback Method
cpg	1049.44	J/mol×K	1230.13	Joback Method
cpg	1053.87	J/mol×K	1269.05	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=U380943&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
h vap:	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
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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