

Sebacic acid, 3-chlorophenyl ethyl ester

Inchi:	InChI=1S/C18H25ClO4/c1-2-22-17(20)12-7-5-3-4-6-8-13-18(21)23-16-11-9-10-15(19)14
InchiKey:	KANMEALMKWOBBV-UHFFFAOYSA-N
Formula:	C18H25ClO4
SMILES:	CCOC(=O)CCCCCCCC(=O)Oc1cccc(Cl)c1
Mol. weight [g/mol]:	340.84

Physical Properties

Property code	Value	Unit	Source
gf	-276.31	kJ/mol	Joback Method
hf	-695.13	kJ/mol	Joback Method
hfus	45.80	kJ/mol	Joback Method
hvap	81.30	kJ/mol	Joback Method
log10ws	-5.52		Crippen Method
logp	4.929		Crippen Method
mcvol	267.840	ml/mol	McGowan Method
pc	1508.15	kPa	Joback Method
rinpola	2537.00		NIST Webbook
tb	832.91	K	Joback Method
tc	1037.04	K	Joback Method
tf	505.80	K	Joback Method
vc	1.032	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	788.39	J/molxK	832.91	Joback Method
cpg	802.92	J/molxK	866.93	Joback Method
cpg	816.38	J/molxK	900.95	Joback Method
cpg	828.80	J/molxK	934.97	Joback Method
cpg	840.20	J/molxK	968.99	Joback Method
cpg	850.59	J/molxK	1003.02	Joback Method
cpg	860.00	J/molxK	1037.04	Joback Method
dvisc	0.0005954	Paxs	505.80	Joback Method
dvisc	0.0003411	Paxs	560.32	Joback Method

dvisc	0.0002157	Paxs	614.84	Joback Method
dvisc	0.0001470	Paxs	669.36	Joback Method
dvisc	0.0001061	Paxs	723.87	Joback Method
dvisc	0.0000802	Paxs	778.39	Joback Method
dvisc	0.0000629	Paxs	832.91	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354856&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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

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