

Succinic acid, 2,2-dichloroethyl 3-phenoxybenzyl ester

Inchi: InChI=1S/C19H18Cl2O5/c20-17(21)13-25-19(23)10-9-18(22)24-12-14-5-4-8-16(11-14)26
InchiKey: SCCKPNHCCSKRRT-UHFFFAOYSA-N
Formula: C19H18Cl2O5
SMILES: O=C(CCC(=O)OCC(Cl)Cl)OCc1cccc(Oc2ccccc2)c1
Mol. weight [g/mol]: 397.25

Physical Properties

Property code	Value	Unit	Source
gf	-274.85	kJ/mol	Joback Method
hf	-632.48	kJ/mol	Joback Method
hfus	44.29	kJ/mol	Joback Method
hvap	92.21	kJ/mol	Joback Method
log10ws	-5.14		Crippen Method
logp	4.649		Crippen Method
mcvol	276.280	ml/mol	McGowan Method
pc	1756.54	kPa	Joback Method
rinpol	2816.00		NIST Webbook
rinpol	2816.00		NIST Webbook
tb	941.88	K	Joback Method
tc	1176.13	K	Joback Method
tf	580.64	K	Joback Method
vc	1.042	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	794.83	J/molxK	941.88	Joback Method
cpg	834.15	J/molxK	1137.09	Joback Method
cpg	828.96	J/molxK	1098.05	Joback Method
cpg	822.45	J/molxK	1059.01	Joback Method
cpg	814.62	J/molxK	1019.96	Joback Method
cpg	805.42	J/molxK	980.92	Joback Method
cpg	838.07	J/molxK	1176.13	Joback Method
dvisc	0.0000325	Paxs	941.88	Joback Method

dvisc	0.0000415	Paxs	881.67	Joback Method
dvisc	0.0000548	Paxs	821.47	Joback Method
dvisc	0.0000757	Paxs	761.26	Joback Method
dvisc	0.0001106	Paxs	701.05	Joback Method
dvisc	0.0001733	Paxs	640.85	Joback Method
dvisc	0.0002982	Paxs	580.64	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390368&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

Latest version available from:

<https://www.chemeo.com/cid/112-759-5/Succinic-acid-2-2-dichloroethyl-3-phenoxybenzyl-ester.pdf>

Generated by Cheméo on 2024-05-06 22:39:03.623548807 +0000 UTC m=+17324392.544126121.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.