

Succinic acid, di(2-phenoxyethyl) ester

Inchi:	InChI=1S/C20H22O6/c21-19(25-15-13-23-17-7-3-1-4-8-17)11-12-20(22)26-16-14-24-18-
InchiKey:	JVQXQUVIYJRNRM-UHFFFAOYSA-N
Formula:	C20H22O6
SMILES:	O=C(CCC(=O)OCCOc1ccccc1)OCCOc1ccccc1
Mol. weight [g/mol]:	358.39

Physical Properties

Property code	Value	Unit	Source
gf	-335.50	kJ/mol	Joback Method
hf	-737.11	kJ/mol	Joback Method
hfus	43.59	kJ/mol	Joback Method
hvap	87.80	kJ/mol	Joback Method
log10ws	-3.60		Crippen Method
logp	3.011		Crippen Method
mcvol	271.760	ml/mol	McGowan Method
pc	1710.36	kPa	Joback Method
rinpol	2818.00		NIST Webbook
tb	907.78	K	Joback Method
tc	1129.77	K	Joback Method
tf	556.78	K	Joback Method
vc	1.024	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	836.90	J/molxK	907.78	Joback Method
cpg	849.71	J/molxK	944.78	Joback Method
cpg	861.07	J/molxK	981.78	Joback Method
cpg	870.99	J/molxK	1018.77	Joback Method
cpg	879.48	J/molxK	1055.77	Joback Method
cpg	886.56	J/molxK	1092.77	Joback Method
cpg	892.23	J/molxK	1129.77	Joback Method
dvisc	0.0002937	Paxs	556.78	Joback Method
dvisc	0.0001688	Paxs	615.28	Joback Method

dvisc	0.0001069	Paxs	673.78	Joback Method
dvisc	0.0000728	Paxs	732.28	Joback Method
dvisc	0.0000525	Paxs	790.78	Joback Method
dvisc	0.0000395	Paxs	849.28	Joback Method
dvisc	0.0000309	Paxs	907.78	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U381202&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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