Succinic acid, 4-phenoxybenzyl propyl ester

Inchi: InChI=1S/C20H22O5/c1-2-14-23-19(21)12-13-20(22)24-15-16-8-10-18(11-9-16)25-17-6-
InchiKey: WMFVHTFOBIFKDK-UHFFFAOYSA-N
Formula: C20H22O5
SMILES: CCCOC(=O)CCC(=O)OCc1ccc(Oc2ccccc2)cc1
Mol. weight [g/mol]: 342.39

Physical Properties

Property code	Value	Unit	Source
gf	-240.13	kJ/mol	Joback Method
hf	-616.36	kJ/mol	Joback Method
hfus	42.01	kJ/mol	Joback Method
hvap	86.05	kJ/mol	Joback Method
log10ws	-4.64		Crippen Method
logp	4.255		Crippen Method
mcvol	265.890	ml/mol	McGowan Method
pc	1713.19	kPa	Joback Method
rinpol	2574.00		NIST Webbook
rinpol	2574.00		NIST Webbook
tb	890.34	K	Joback Method
tc	1113.35	K	Joback Method
tf	547.07	K	Joback Method
vc	1.006	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	808.72	J/mol×K	890.34	Joback Method
cpg	822.20	J/mol×K	927.51	Joback Method
cpg	834.32	J/mol×K	964.68	Joback Method
cpg	845.10	J/mol×K	1001.84	Joback Method
cpg	854.56	J/mol×K	1039.01	Joback Method
cpg	862.71	J/mol×K	1076.18	Joback Method
cpg	869.60	J/mol×K	1113.35	Joback Method
dvisc	0.0003662	Pa×s	547.07	Joback Method

dvisc	0.0002154	Pa×s	604.28	Joback Method
dvisc	0.0001388	Pa×s	661.49	Joback Method
dvisc	0.0000960	Pa×s	718.70	Joback Method
dvisc	0.0000701	Pa×s	775.92	Joback Method
dvisc	0.0000534	Pa×s	833.13	Joback Method
dvisc	0.0000421	Pa×s	890.34	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=U349591&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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