

Succinic acid, 2-ethylhexyl 2-methoxy-5-methylphenyl ester

Inchi: InChI=1S/C20H30O5/c1-5-7-8-16(6-2)14-24-19(21)11-12-20(22)25-18-13-15(3)9-10-17(4)
InchiKey: SIRFDSCIJLBZJG-UHFFFAOYSA-N
Formula: C20H30O5
SMILES: CCCCC(CC)COC(=O)CCC(=O)Oc1cc(C)ccc1OC
Mol. weight [g/mol]: 350.45

Physical Properties

Property code	Value	Unit	Source
gf	-364.61	kJ/mol	Joback Method
hf	-869.64	kJ/mol	Joback Method
hfus	44.06	kJ/mol	Joback Method
hvap	84.05	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	4.449		Crippen Method
mvol	289.650	ml/mol	McGowan Method
pc	1318.48	kPa	Joback Method
rinpol	2477.00		NIST Webbook
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tb	868.20	K	Joback Method
tc	1072.07	K	Joback Method
tf	518.17	K	Joback Method
vc	1.107	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	906.91	J/molxK	868.20	Joback Method
cpg	922.55	J/molxK	902.18	Joback Method
cpg	936.94	J/molxK	936.16	Joback Method
cpg	950.09	J/molxK	970.14	Joback Method
cpg	961.99	J/molxK	1004.11	Joback Method
cpg	972.66	J/molxK	1038.09	Joback Method
cpg	982.10	J/molxK	1072.07	Joback Method
dvisc	0.0004006	Paxs	518.17	Joback Method

dvisc	0.0002221	Paxs	576.51	Joback Method
dvisc	0.0001372	Paxs	634.85	Joback Method
dvisc	0.0000919	Paxs	693.19	Joback Method
dvisc	0.0000655	Paxs	751.52	Joback Method
dvisc	0.0000491	Paxs	809.86	Joback Method
dvisc	0.0000382	Paxs	868.20	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390961&Units=SI

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
log_p:	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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