Sebacic acid, hexyl 4-isopropylphenyl ester

Inchi: InChI=1S/C25H40O4/c1-4-5-6-13-20-28-24(26)14-11-9-7-8-10-12-15-25(27)29-23-18-16
InchiKey: SRFKXEBJDIWMKW-UHFFFAOYSA-N
Formula: C25H40O4
SMILES: CCCCCCOC(=O)CCCCCCCCC(=O)Oc1ccc(C(C)C)cc1
Mol. weight [g/mol]: 404.58

Physical Properties

Property code	Value	Unit	Source
gf	-207.88	kJ/mol	Joback Method
hf	-829.15	kJ/mol	Joback Method
hfus	56.21	kJ/mol	Joback Method
hvap	92.11	kJ/mol	Joback Method
log10ws	-7.69		Crippen Method
logp	6.960		Crippen Method
mcvol	354.230	ml/mol	McGowan Method
pc	975.34	kPa	Joback Method
rinpol	3042.00		NIST Webbook
rinpol	3042.00		NIST Webbook
tb	955.20	K	Joback Method
tc	1169.50	K	Joback Method
tf	539.77	K	Joback Method
vc	1.369	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1181.72	J/mol×K	955.20	Joback Method
cpg	1253.77	J/mol×K	1133.79	Joback Method
cpg	1242.11	J/mol×K	1098.07	Joback Method
cpg	1229.11	J/mol×K	1062.35	Joback Method
cpg	1214.75	J/mol×K	1026.63	Joback Method
cpg	1198.96	J/mol×K	990.92	Joback Method
cpg	1264.15	J/mol×K	1169.50	Joback Method
dvisc	0.0000242	Pa×s	955.20	Joback Method

dvisc	0.0000320	Pa×s	885.96	Joback Method
dvisc	0.0000443	Pa×s	816.72	Joback Method
dvisc	0.0000654	Pa×s	747.48	Joback Method
dvisc	0.0001043	Pa×s	678.25	Joback Method
dvisc	0.0001851	Pa×s	609.01	Joback Method
dvisc	0.0003804	Pa×s	539.77	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=U354456&Units=SI

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