

Sebacic acid, isohexyl 3-phenylallyl ester

Inchi:	InChI=1S/C25H38O4/c1-22(2)14-12-20-28-24(26)18-10-5-3-4-6-11-19-25(27)29-21-13-1
InchiKey:	FYZOFBDADLGRQX-GHRIWEEISA-N
Formula:	C25H38O4
SMILES:	CC(C)CCCOC(=O)CCCCCCCC(=O)OCC=Cc1ccccc1
Mol. weight [g/mol]:	402.57

Physical Properties

Property code	Value	Unit	Source
gf	-118.03	kJ/mol	Joback Method
hf	-700.46	kJ/mol	Joback Method
hfus	56.80	kJ/mol	Joback Method
hvap	91.40	kJ/mol	Joback Method
log10ws	-6.89		Crippen Method
logp	6.343		Crippen Method
mvol	349.930	ml/mol	McGowan Method
pc	1017.48	kPa	Joback Method
rinpol	3071.00		NIST Webbook
rinpol	3071.00		NIST Webbook
tb	954.38	K	Joback Method
tc	1169.02	K	Joback Method
tf	522.17	K	Joback Method
vc	1.349	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1154.14	J/molxK	954.38	Joback Method
cpg	1171.13	J/molxK	990.15	Joback Method
cpg	1186.82	J/molxK	1025.93	Joback Method
cpg	1201.27	J/molxK	1061.70	Joback Method
cpg	1214.54	J/molxK	1097.48	Joback Method
cpg	1226.70	J/molxK	1133.25	Joback Method
cpg	1237.82	J/molxK	1169.02	Joback Method
dvisc	0.0004126	Paxs	522.17	Joback Method

dvisc	0.0001853	Paxs	594.20	Joback Method
dvisc	0.0000989	Paxs	666.24	Joback Method
dvisc	0.0000597	Paxs	738.27	Joback Method
dvisc	0.0000394	Paxs	810.31	Joback Method
dvisc	0.0000278	Paxs	882.34	Joback Method
dvisc	0.0000207	Paxs	954.38	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=U355891&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

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