

Sebacic acid, heptyl 3-iodobenzyl ester

Inchi:	InChI=1S/C24H37IO4/c1-2-3-4-9-12-18-28-23(26)16-10-7-5-6-8-11-17-24(27)29-20-21-1
InchiKey:	UALBYCYVYDXNOS-UHFFFAOYSA-N
Formula:	C24H37IO4
SMILES:	CCCCCCCOC(=O)CCCCCCCC(=O)OCc1cccc(I)c1
Mol. weight [g/mol]:	516.45

Physical Properties

Property code	Value	Unit	Source
gf	-155.74	kJ/mol	Joback Method
hf	-726.36	kJ/mol	Joback Method
hfus	61.55	kJ/mol	Joback Method
hvap	99.64	kJ/mol	Joback Method
log10ws	-8.34		Crippen Method
logp	6.969		Crippen Method
mvol	365.960	ml/mol	McGowan Method
pc	1016.83	kPa	Joback Method
rinpol	3186.00		NIST Webbook
rinpol	3186.00		NIST Webbook
tb	1025.90	K	Joback Method
tc	1256.07	K	Joback Method
tf	601.56	K	Joback Method
vc	1.407	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1170.90	J/molxK	1025.90	Joback Method
cpg	1185.60	J/molxK	1064.26	Joback Method
cpg	1198.92	J/molxK	1102.62	Joback Method
cpg	1210.92	J/molxK	1140.98	Joback Method
cpg	1221.67	J/molxK	1179.34	Joback Method
cpg	1231.22	J/molxK	1217.71	Joback Method
cpg	1239.64	J/molxK	1256.07	Joback Method
dvisc	0.0002534	Paxs	601.56	Joback Method

dvisc	0.0001340	Paxs	672.28	Joback Method
dvisc	0.0000800	Paxs	743.01	Joback Method
dvisc	0.0000522	Paxs	813.73	Joback Method
dvisc	0.0000365	Paxs	884.45	Joback Method
dvisc	0.0000269	Paxs	955.18	Joback Method
dvisc	0.0000207	Paxs	1025.90	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U380757&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

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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