

Succinic acid, 2-iodobenzyl hexadecyl ester

Inchi: InChI=1S/C27H43IO4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-17-22-31-26(29)20-21-27(30)3
InchiKey: YAIJJUYDHUZESW-UHFFFAOYSA-N
Formula: C27H43IO4
SMILES: CCCCCCCCCCCCCCOC(=O)CCC(=O)OCc1ccccc1I
Mol. weight [g/mol]: 558.53

Physical Properties

Property code	Value	Unit	Source
gf	-130.48	kJ/mol	Joback Method
hf	-788.28	kJ/mol	Joback Method
hfus	69.32	kJ/mol	Joback Method
hvap	106.32	kJ/mol	Joback Method
log10ws	-9.60		Crippen Method
logp	8.139		Crippen Method
mvol	408.230	ml/mol	McGowan Method
pc	852.97	kPa	Joback Method
rinpol	3542.00		NIST Webbook
rinpol	3542.00		NIST Webbook
tb	1094.54	K	Joback Method
tc	1344.07	K	Joback Method
tf	635.37	K	Joback Method
vc	1.575	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1356.74	J/molxK	1094.54	Joback Method
cpg	1372.24	J/molxK	1136.13	Joback Method
cpg	1386.11	J/molxK	1177.72	Joback Method
cpg	1398.45	J/molxK	1219.31	Joback Method
cpg	1409.35	J/molxK	1260.89	Joback Method
cpg	1418.90	J/molxK	1302.48	Joback Method
cpg	1427.21	J/molxK	1344.07	Joback Method
dvisc	0.0001704	Paxs	635.37	Joback Method

dvisc	0.0000877	Paxs	711.90	Joback Method
dvisc	0.0000513	Paxs	788.43	Joback Method
dvisc	0.0000330	Paxs	864.95	Joback Method
dvisc	0.0000228	Paxs	941.48	Joback Method
dvisc	0.0000167	Paxs	1018.01	Joback Method
dvisc	0.0000128	Paxs	1094.54	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=U381113&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

Latest version available from:

<https://www.chemeo.com/cid/72-084-9/Succinic-acid-2-iodobenzyl-hexadecyl-ester.pdf>

Generated by Cheméo on 2024-04-26 15:22:24.979362749 +0000 UTC m=+16434193.899940064.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.