

Succinic acid, isobutyl 3-methoxybenzyl ester

Inchi:	InChI=1S/C16H22O5/c1-12(2)10-20-15(17)7-8-16(18)21-11-13-5-4-6-14(9-13)19-3/h4-6,
InchiKey:	DXEKQEA EVTZGDK-UHFFFAOYSA-N
Formula:	C16H22O5
SMILES:	<chem>COc1cccc(COC(=O)CCC(=O)OCC(C)C)c1</chem>
Mol. weight [g/mol]:	294.34

Physical Properties

Property code	Value	Unit	Source
gf	-388.66	kJ/mol	Joback Method
hf	-775.61	kJ/mol	Joback Method
hfus	34.09	kJ/mol	Joback Method
hvap	74.48	kJ/mol	Joback Method
log10ws	-3.30		Crippen Method
logp	2.718		Crippen Method
mvol	233.290	ml/mol	McGowan Method
pc	1803.09	kPa	Joback Method
rinpol	2134.00		NIST Webbook
rinpol	2134.00		NIST Webbook
tb	771.70	K	Joback Method
tc	975.50	K	Joback Method
tf	460.57	K	Joback Method
vc	0.883	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	676.85	J/molxK	771.70	Joback Method
cpg	691.80	J/molxK	805.67	Joback Method
cpg	705.71	J/molxK	839.63	Joback Method
cpg	718.58	J/molxK	873.60	Joback Method
cpg	730.40	J/molxK	907.57	Joback Method
cpg	741.18	J/molxK	941.54	Joback Method
cpg	750.92	J/molxK	975.50	Joback Method
dvisc	0.0006944	Paxs	460.57	Joback Method

dvisc	0.0003841	Paxs	512.42	Joback Method
dvisc	0.0002368	Paxs	564.28	Joback Method
dvisc	0.0001584	Paxs	616.13	Joback Method
dvisc	0.0001128	Paxs	667.99	Joback Method
dvisc	0.0000844	Paxs	719.85	Joback Method
dvisc	0.0000656	Paxs	771.70	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U381252&Units=SI
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

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
logp:	Octanol/Water partition coefficient
m_{cvol}:	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/82-416-9/Succinic-acid-isobutyl-3-methoxybenzyl-ester.pdf>

Generated by Cheméo on 2024-04-18 05:21:49.465724515 +0000 UTC m=+15706958.386301830.

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