

Succinic acid, 8-bromooctyl isobutyl ester

Inchi: InChI=1S/C16H29BrO4/c1-14(2)13-21-16(19)10-9-15(18)20-12-8-6-4-3-5-7-11-17/h14H,
InchiKey: ZUIFKCRYLRMLPM-UHFFFAOYSA-N
Formula: C16H29BrO4
SMILES: CC(C)COC(=O)CCC(=O)OCCCCCCCCBr
Mol. weight [g/mol]: 365.30

Physical Properties

Property code	Value	Unit	Source
gf	-372.12	kJ/mol	Joback Method
hf	-842.12	kJ/mol	Joback Method
hfus	44.53	kJ/mol	Joback Method
hvap	75.57	kJ/mol	Joback Method
log10ws	-4.44		Crippen Method
logp	4.245		Crippen Method
mcvol	268.680	ml/mol	McGowan Method
pc	1496.51	kPa	Joback Method
rinpol	2306.00		NIST Webbook
rinpol	2306.00		NIST Webbook
tb	783.78	K	Joback Method
tc	973.23	K	Joback Method
tf	459.20	K	Joback Method
vc	1.036	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	780.96	J/molxK	783.78	Joback Method
cpg	796.45	J/molxK	815.36	Joback Method
cpg	811.03	J/molxK	846.93	Joback Method
cpg	824.73	J/molxK	878.51	Joback Method
cpg	837.55	J/molxK	910.08	Joback Method
cpg	849.52	J/molxK	941.66	Joback Method
cpg	860.65	J/molxK	973.23	Joback Method
dvisc	0.0009230	Paxs	459.20	Joback Method

dvisc	0.0004770	Paxs	513.30	Joback Method
dvisc	0.0002796	Paxs	567.39	Joback Method
dvisc	0.0001798	Paxs	621.49	Joback Method
dvisc	0.0001242	Paxs	675.59	Joback Method
dvisc	0.0000906	Paxs	729.68	Joback Method
dvisc	0.0000690	Paxs	783.78	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U381312&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
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

Latest version available from:

<https://www.chemeo.com/cid/117-293-7/Succinic-acid-8-bromooctyl-isobutyl-ester.pdf>

Generated by Cheméo on 2024-05-02 23:51:20.64105297 +0000 UTC m=+16983129.561630285.

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