

Succinic acid, di(7-bromoheptyl) ester

Inchi: InChI=1S/C18H32Br2O4/c19-13-7-3-1-5-9-15-23-17(21)11-12-18(22)24-16-10-6-2-4-8-14
InchiKey: XZGSZXXVINANJD-UHFFFAOYSA-N
Formula: C18H32Br2O4
SMILES: O=C(CCC(=O)OCCCCCBr)OCCCCCBr
Mol. weight [g/mol]: 472.25

Physical Properties

Property code	Value	Unit	Source
gf	-338.52	kJ/mol	Joback Method
hf	-851.79	kJ/mol	Joback Method
hfus	58.52	kJ/mol	Joback Method
hvap	86.84	kJ/mol	Joback Method
log10ws	-5.95		Crippen Method
logp	5.544		Crippen Method
mvol	314.360	ml/mol	McGowan Method
pc	1355.63	kPa	Joback Method
rinpol	2896.00		NIST Webbook
rinpol	2896.00		NIST Webbook
tb	896.14	K	Joback Method
tc	1099.72	K	Joback Method
tf	556.54	K	Joback Method
vc	1.216	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	939.11	J/mol×K	896.14	Joback Method
cpg	953.87	J/mol×K	930.07	Joback Method
cpg	967.62	J/mol×K	964.00	Joback Method
cpg	980.40	J/mol×K	997.93	Joback Method
cpg	992.23	J/mol×K	1031.86	Joback Method
cpg	1003.15	J/mol×K	1065.79	Joback Method
cpg	1013.20	J/mol×K	1099.72	Joback Method
dvisc	0.0003990	Paxs	556.54	Joback Method

dvisc	0.0002304	Paxs	613.14	Joback Method
dvisc	0.0001460	Paxs	669.74	Joback Method
dvisc	0.0000993	Paxs	726.34	Joback Method
dvisc	0.0000714	Paxs	782.94	Joback Method
dvisc	0.0000537	Paxs	839.54	Joback Method
dvisc	0.0000419	Paxs	896.14	Joback Method

Sources

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=U382408&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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/78-259-9/Succinic-acid-di-7-bromoheptyl-ester.pdf>

Generated by Cheméo on 2024-04-28 20:53:00.305283615 +0000 UTC m=+16626829.225860930.

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