Succinic acid, di(4-bromophenethyl) ester

Inchi: InChI=1S/C20H20Br2O4/c21-17-5-1-15(2-6-17)11-13-25-19(23)9-10-20(24)26-14-12-16-
InchiKey: QKUJBWNZIHKZTD-UHFFFAOYSA-N
Formula: C20H20Br2O4
SMILES: O=C(CCC(=O)OCCc1ccc(Br)cc1)OCCc1ccc(Br)cc1
Mol. weight [g/mol]: 484.18

Physical Properties

Property code	Value	Unit	Source
gf	-116.12	kJ/mol	Joback Method
hf	-442.95	kJ/mol	Joback Method
hfus	51.00	kJ/mol	Joback Method
hvap	97.17	kJ/mol	Joback Method
log10ws	-6.45		Crippen Method
logp	4.863		Crippen Method
mcvol	295.020	ml/mol	McGowan Method
pc	1930.44	kPa	Joback Method
rinpol	3193.00		NIST Webbook
rinpol	3193.00		NIST Webbook
tb	1005.22	K	Joback Method
tc	1249.21	K	Joback Method
tf	656.96	K	Joback Method
vc	1.111	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	842.62	J/mol×K	1005.22	Joback Method
cpg	883.91	J/mol×K	1208.55	Joback Method
cpg	877.68	J/mol×K	1167.88	Joback Method
cpg	870.50	J/mol×K	1127.22	Joback Method
cpg	862.31	J/mol×K	1086.55	Joback Method
cpg	853.04	J/mol×K	1045.89	Joback Method
cpg	889.27	J/mol×K	1249.21	Joback Method
dvisc	0.0000342	Pa×s	1005.22	Joback Method

dvisc	0.0000422	Pa×s	947.18	Joback Method
dvisc	0.0000536	Pa×s	889.13	Joback Method
dvisc	0.0000704	Pa×s	831.09	Joback Method
dvisc	0.0000963	Pa×s	773.05	Joback Method
dvisc	0.0001385	Pa×s	715.00	Joback Method
dvisc	0.0002125	Pa×s	656.96	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=U381445&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