Succinic acid, 4-bromophenethyl undecyl ester

Inchi: InChI=1S/C23H35BrO4/c1-2-3-4-5-6-7-8-9-10-18-27-22(25)15-16-23(26)28-19-17-20-11-

InchiKey: BPXJBCNVLQJKAR-UHFFFAOYSA-N

Formula: C23H35BrO4

SMILES: CCCCCCCCCCCOC(=O)CCC(=O)OCCc1ccc(Br)cc1

Mol. weight [g/mol]: 455.43

Physical Properties

Property code	Value	Unit	Source
gf	-207.96	kJ/mol	Joback Method
hf	-756.26	kJ/mol	Joback Method
hfus	59.84	kJ/mol	Joback Method
hvap	94.48	kJ/mol	Joback Method
log10ws	-7.44		Crippen Method
logp	6.389		Crippen Method
mcvol	343.550	ml/mol	McGowan Method
pc	1149.87	kPa	Joback Method
rinpol	3054.00		NIST Webbook
rinpol	3054.00		NIST Webbook
tb	976.04	K	Joback Method
tc	1195.50	K	Joback Method
tf	592.03	K	Joback Method
vc	1.325	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1098.41	J/mol×K	976.04	Joback Method
cpg	1161.43	J/mol×K	1158.93	Joback Method
cpg	1151.24	J/mol×K	1122.35	Joback Method
cpg	1139.90	J/mol×K	1085.77	Joback Method
cpg	1127.34	J/mol×K	1049.19	Joback Method
cpg	1113.53	J/mol×K	1012.62	Joback Method
cpg	1170.51	J/mol×K	1195.50	Joback Method
dvisc	0.0000271	Pa×s	976.04	Joback Method

dvisc	0.0000348	Pa×s	912.04	Joback Method
dvisc	0.0000465	Pa×s	848.04	Joback Method
dvisc	0.0000650	Pa×s	784.03	Joback Method
dvisc	0.0000964	Pa×s	720.03	Joback Method
dvisc	0.0001544	Pa×s	656.03	Joback Method
dvisc	0.0002740	Pa×s	592.03	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=U381441&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