

Succinic acid, 4-bromophenethyl pentyl ester

Inchi: InChI=1S/C17H23BrO4/c1-2-3-4-12-21-16(19)9-10-17(20)22-13-11-14-5-7-15(18)8-6-14
InchiKey: BMLPFMTZDQKNGY-UHFFFAOYSA-N
Formula: C17H23BrO4
SMILES: CCCCCOC(=O)CCC(=O)OCCc1ccc(Br)cc1
Mol. weight [g/mol]: 371.27

Physical Properties

Property code	Value	Unit	Source
gf	-258.48	kJ/mol	Joback Method
hf	-632.42	kJ/mol	Joback Method
hfus	44.30	kJ/mol	Joback Method
hvap	81.12	kJ/mol	Joback Method
log10ws	-4.93		Crippen Method
logp	4.048		Crippen Method
mcvol	259.010	ml/mol	McGowan Method
pc	1775.84	kPa	Joback Method
rinpol	2446.00		NIST Webbook
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tb	838.76	K	Joback Method
tc	1049.57	K	Joback Method
tf	524.41	K	Joback Method
vc	0.990	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	744.01	J/molxK	838.76	Joback Method
cpg	757.80	J/molxK	873.90	Joback Method
cpg	770.55	J/molxK	909.03	Joback Method
cpg	782.28	J/molxK	944.17	Joback Method
cpg	793.04	J/molxK	979.30	Joback Method
cpg	802.83	J/molxK	1014.44	Joback Method
cpg	811.68	J/molxK	1049.57	Joback Method
dvisc	0.0005356	Paxs	524.41	Joback Method

dvisc	0.0003233	Paxs	576.80	Joback Method
dvisc	0.0002123	Paxs	629.19	Joback Method
dvisc	0.0001487	Paxs	681.59	Joback Method
dvisc	0.0001096	Paxs	733.98	Joback Method
dvisc	0.0000841	Paxs	786.37	Joback Method
dvisc	0.0000667	Paxs	838.76	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=U381434&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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