

Sebacic acid, 2-(4-bromophenoxy)ethyl pentyl ester

Inchi:	InChI=1S/C23H35BrO5/c1-2-3-10-17-28-22(25)11-8-6-4-5-7-9-12-23(26)29-19-18-27-21
InchiKey:	FVNMCTQSPCTVAL-UHFFFAOYSA-N
Formula:	C23H35BrO5
SMILES:	CCCCCOC(=O)CCCCCCCC(=O)OCCOc1ccc(Br)cc1
Mol. weight [g/mol]:	471.43

Physical Properties

Property code	Value	Unit	Source
gf	-312.96	kJ/mol	Joback Method
hf	-888.48	kJ/mol	Joback Method
hfus	61.02	kJ/mol	Joback Method
hvap	96.89	kJ/mol	Joback Method
log10ws	-7.18		Crippen Method
logp	6.225		Crippen Method
mvol	349.420	ml/mol	McGowan Method
pc	1136.73	kPa	Joback Method
rinpol	3199.00		NIST Webbook
rinpol	3199.00		NIST Webbook
tb	998.46	K	Joback Method
tc	1222.41	K	Joback Method
tf	614.26	K	Joback Method
vc	1.343	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1126.34	J/molxK	998.46	Joback Method
cpg	1140.65	J/molxK	1035.78	Joback Method
cpg	1153.47	J/molxK	1073.11	Joback Method
cpg	1164.83	J/molxK	1110.43	Joback Method
cpg	1174.77	J/molxK	1147.76	Joback Method
cpg	1183.32	J/molxK	1185.08	Joback Method
cpg	1190.52	J/molxK	1222.41	Joback Method
dvisc	0.0001901	Paxs	614.26	Joback Method

dvisc	0.0001093	Paxs	678.29	Joback Method
dvisc	0.0000691	Paxs	742.33	Joback Method
dvisc	0.0000470	Paxs	806.36	Joback Method
dvisc	0.0000339	Paxs	870.39	Joback Method
dvisc	0.0000255	Paxs	934.43	Joback Method
dvisc	0.0000199	Paxs	998.46	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U380597&Units=SI

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

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