

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

Inchi:	InChI=1S/C21H23BrO5/c1-2-3-6-13-26-20(23)18-7-4-5-8-19(18)21(24)27-15-14-25-17-1
InchiKey:	AEXVOXYXZQBHIT-UHFFFAOYSA-N
Formula:	C21H23BrO5
SMILES:	CCCCCOC(=O)c1cccc1C(=O)OCCOc1ccc(Br)cc1
Mol. weight [g/mol]:	435.31

Physical Properties

Property code	Value	Unit	Source
gf	-227.02	kJ/mol	Joback Method
hf	-622.14	kJ/mol	Joback Method
hfus	49.50	kJ/mol	Joback Method
hvap	95.37	kJ/mol	Joback Method
log10ws	-6.56		Crippen Method
logp	5.032		Crippen Method
mcvol	297.480	ml/mol	McGowan Method
pc	1655.15	kPa	Joback Method
rinpol	2931.00		NIST Webbook
rinpol	2931.00		NIST Webbook
tb	984.36	K	Joback Method
tc	1217.89	K	Joback Method
tf	630.66	K	Joback Method
vc	1.123	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	897.51	J/molxK	984.36	Joback Method
cpg	908.79	J/molxK	1023.28	Joback Method
cpg	918.65	J/molxK	1062.20	Joback Method
cpg	927.13	J/molxK	1101.13	Joback Method
cpg	934.26	J/molxK	1140.05	Joback Method
cpg	940.08	J/molxK	1178.97	Joback Method
cpg	944.61	J/molxK	1217.89	Joback Method
dvisc	0.0001997	Paxs	630.66	Joback Method

dvisc	0.0001260	Paxs	689.61	Joback Method
dvisc	0.0000855	Paxs	748.56	Joback Method
dvisc	0.0000614	Paxs	807.51	Joback Method
dvisc	0.0000461	Paxs	866.46	Joback Method
dvisc	0.0000359	Paxs	925.41	Joback Method
dvisc	0.0000288	Paxs	984.36	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=U382894&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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