

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

Inchi:	InChI=1S/C20H21BrO5/c1-2-3-12-25-19(22)17-6-4-5-7-18(17)20(23)26-14-13-24-16-10-
InchiKey:	YULIMMDZAKYTNL-UHFFFAOYSA-N
Formula:	C20H21BrO5
SMILES:	CCCCOC(=O)c1ccccc1C(=O)OCCOc1ccc(Br)cc1
Mol. weight [g/mol]:	421.28

Physical Properties

Property code	Value	Unit	Source
gf	-235.44	kJ/mol	Joback Method
hf	-601.50	kJ/mol	Joback Method
hfus	46.91	kJ/mol	Joback Method
hvap	93.15	kJ/mol	Joback Method
log10ws	-6.14		Crippen Method
logp	4.642		Crippen Method
mcvol	283.390	ml/mol	McGowan Method
pc	1792.42	kPa	Joback Method
rinpol	2832.00		NIST Webbook
rinpol	2832.00		NIST Webbook
tb	961.48	K	Joback Method
tc	1195.28	K	Joback Method
tf	619.39	K	Joback Method
vc	1.067	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	839.49	J/molxK	961.48	Joback Method
cpg	882.25	J/molxK	1156.31	Joback Method
cpg	876.35	J/molxK	1117.35	Joback Method
cpg	869.15	J/molxK	1078.38	Joback Method
cpg	860.62	J/molxK	1039.41	Joback Method
cpg	850.75	J/molxK	1000.45	Joback Method
cpg	886.89	J/molxK	1195.28	Joback Method
dvisc	0.0000335	Paxs	961.48	Joback Method

dvisc	0.0000416	Paxs	904.47	Joback Method
dvisc	0.0000532	Paxs	847.45	Joback Method
dvisc	0.0000705	Paxs	790.43	Joback Method
dvisc	0.0000975	Paxs	733.42	Joback Method
dvisc	0.0001425	Paxs	676.40	Joback Method
dvisc	0.0002234	Paxs	619.39	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=U382893&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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