

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

Inchi:	InChI=1S/C28H37BrO5/c1-2-3-4-5-6-7-8-9-10-13-20-33-27(30)25-14-11-12-15-26(25)28
InchiKey:	XHRICMNZBULCOR-UHFFFAOYSA-N
Formula:	C28H37BrO5
SMILES:	CCCCCCCCCCCCOC(=O)c1ccccc1C(=O)OCCOc1ccc(Br)cc1
Mol. weight [g/mol]:	533.49

Physical Properties

Property code	Value	Unit	Source
gf	-168.08	kJ/mol	Joback Method
hf	-766.62	kJ/mol	Joback Method
hfus	67.63	kJ/mol	Joback Method
hvap	110.95	kJ/mol	Joback Method
log10ws	-9.49		Crippen Method
logp	7.763		Crippen Method
mvol	396.110	ml/mol	McGowan Method
pc	1020.73	kPa	Joback Method
rinpol	3632.00		NIST Webbook
rinpol	3632.00		NIST Webbook
tb	1144.52	K	Joback Method
tc	1403.94	K	Joback Method
tf	709.55	K	Joback Method
vc	1.516	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1315.81	J/molxK	1144.52	Joback Method
cpg	1354.04	J/molxK	1360.70	Joback Method
cpg	1349.84	J/molxK	1317.46	Joback Method
cpg	1344.00	J/molxK	1274.23	Joback Method
cpg	1336.44	J/molxK	1230.99	Joback Method
cpg	1327.07	J/molxK	1187.76	Joback Method
cpg	1356.70	J/molxK	1403.94	Joback Method
dvisc	0.0000096	Paxs	1144.52	Joback Method

dvisc	0.0000122	Paxs	1072.03	Joback Method
dvisc	0.0000161	Paxs	999.53	Joback Method
dvisc	0.0000221	Paxs	927.04	Joback Method
dvisc	0.0000321	Paxs	854.54	Joback Method
dvisc	0.0000498	Paxs	782.05	Joback Method
dvisc	0.0000846	Paxs	709.55	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=U382901&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

Latest version available from:

<https://www.chemeo.com/cid/98-286-7/Phthalic-acid-2-4-bromophenoxy-ethyl-dodecyl-ester.pdf>

Generated by Cheméo on 2024-05-06 16:48:54.768458084 +0000 UTC m=+17303383.689035406.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.