

Phthalic acid, di(4-chloro-2-methoxybenzyl) ester

Inchi:	InChI=1S/C24H20Cl2O6/c1-29-21-11-17(25)9-7-15(21)13-31-23(27)19-5-3-4-6-20(19)24
InchiKey:	LDIUBONKJQBVDK-UHFFFAOYSA-N
Formula:	C24H20Cl2O6
SMILES:	COc1cc(Cl)ccc1COC(=O)c1ccccc1C(=O)OCc1ccc(Cl)cc1OC
Mol. weight [g/mol]:	475.32

Physical Properties

Property code	Value	Unit	Source
gf	-261.42	kJ/mol	Joback Method
hf	-671.97	kJ/mol	Joback Method
hfus	54.44	kJ/mol	Joback Method
hvap	111.06	kJ/mol	Joback Method
log10ws	-7.79		Crippen Method
logp	5.725		Crippen Method
mcvol	328.840	ml/mol	McGowan Method
pc	1456.79	kPa	Joback Method
rinpol	3457.00		NIST Webbook
rinpol	3457.00		NIST Webbook
tb	1125.74	K	Joback Method
tc	1383.51	K	Joback Method
tf	750.72	K	Joback Method
vc	1.238	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	980.96	J/molxK	1125.74	Joback Method
cpg	985.55	J/molxK	1168.70	Joback Method
cpg	988.02	J/molxK	1211.66	Joback Method
cpg	988.37	J/molxK	1254.63	Joback Method
cpg	986.60	J/molxK	1297.59	Joback Method
cpg	982.73	J/molxK	1340.55	Joback Method
cpg	976.74	J/molxK	1383.51	Joback Method
dvisc	0.0000755	Paxs	750.72	Joback Method

dvisc	0.0000515	Paxs	813.22	Joback Method
dvisc	0.0000371	Paxs	875.73	Joback Method
dvisc	0.0000279	Paxs	938.23	Joback Method
dvisc	0.0000218	Paxs	1000.73	Joback Method
dvisc	0.0000175	Paxs	1063.24	Joback Method
dvisc	0.0000144	Paxs	1125.74	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382847&Units=SI
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

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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