Phthalic acid, di(2-methoxybenzyl) ester

Inchi: InChI=1S/C24H22O6/c1-27-21-13-7-3-9-17(21)15-29-23(25)19-11-5-6-12-20(19)24(26)3
InchiKey: ONPRCCJSUILICU-UHFFFAOYSA-N
Formula: C24H22O6
SMILES: COc1ccccc1COC(=O)c1ccccc1C(=O)OCc1ccccc1OC
Mol. weight [g/mol]: 406.43

Physical Properties

Property code	Value	Unit	Source
gf	-218.30	kJ/mol	Joback Method
hf	-617.55	kJ/mol	Joback Method
hfus	46.82	kJ/mol	Joback Method
hvap	100.96	kJ/mol	Joback Method
log10ws	-6.42		Crippen Method
logp	4.418		Crippen Method
mcvol	304.360	ml/mol	McGowan Method
pc	1579.71	kPa	Joback Method
rinpol	3617.00		NIST Webbook
rinpol	3617.00		NIST Webbook
tb	1040.92	K	Joback Method
tc	1286.89	K	Joback Method
tf	665.84	K	Joback Method
vc	1.139	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	955.79	J/mol×K	1040.92	Joback Method
cpg	964.83	J/mol×K	1081.91	Joback Method
cpg	971.97	J/mol×K	1122.91	Joback Method
cpg	977.22	J/mol×K	1163.90	Joback Method
cpg	980.59	J/mol×K	1204.90	Joback Method
cpg	982.11	J/mol×K	1245.89	Joback Method
cpg	981.79	J/mol×K	1286.89	Joback Method
dvisc	0.0001267	Pa×s	665.84	Joback Method

dvisc	0.0000807	Pa×s	728.35	Joback Method
dvisc	0.0000552	Pa×s	790.87	Joback Method
dvisc	0.0000399	Pa×s	853.38	Joback Method
dvisc	0.0000302	Pa×s	915.89	Joback Method
dvisc	0.0000237	Pa×s	978.41	Joback Method
dvisc	0.0000191	Pa×s	1040.92	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=U382503&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