

Phthalic acid, 2-methoxybenzyl pentyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C21H24O5/c1-3-4-9-14-25-20(22)17-11-6-7-12-18(17)21(23)26-15-16-10-5-8-1

DIZBFCQVKZIOMX-UHFFFAOYSA-N

C21H24O5

CCCCCOC(=O)c1ccccc1C(=O)OCc1ccccc1OC

356.41

Physical Properties

Property code	Value	Unit	Source
gf	-241.34	kJ/mol	Joback Method
hf	-648.47	kJ/mol	Joback Method
hfus	44.21	kJ/mol	Joback Method
hvap	88.94	kJ/mol	Joback Method
log10ws	-5.86		Crippen Method
logp	4.399		Crippen Method
mcvol	279.980	ml/mol	McGowan Method
pc	1565.99	kPa	Joback Method
rinpol	3069.00		NIST Webbook
rinpol	3069.00		NIST Webbook
tb	918.20	K	Joback Method
tc	1141.23	K	Joback Method
tf	570.86	K	Joback Method
vc	1.062	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	865.55	J/mol×K	918.20	Joback Method
cpg	878.94	J/mol×K	955.37	Joback Method
cpg	890.91	J/mol×K	992.54	Joback Method
cpg	901.49	J/mol×K	1029.71	Joback Method
cpg	910.68	J/mol×K	1066.88	Joback Method
cpg	918.51	J/mol×K	1104.05	Joback Method
cpg	925.00	J/mol×K	1141.23	Joback Method
dvisc	0.0002929	Pa×s	570.86	Joback Method

dvisc	0.0001774	Pa×s	628.75	Joback Method
dvisc	0.0001169	Pa×s	686.64	Joback Method
dvisc	0.0000822	Pa×s	744.53	Joback Method
dvisc	0.0000608	Pa×s	802.42	Joback Method
dvisc	0.0000468	Pa×s	860.31	Joback Method
dvisc	0.0000373	Pa×s	918.20	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382494&Units=SI
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

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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