Phthalic acid, ethyl 3-phenoxybenzyl ester

Inchi: InChI=1S/C23H20O5/c1-2-26-22(24)20-13-6-7-14-21(20)23(25)27-16-17-9-8-12-19(15-1
InchiKey: UAFREMQYZFWXQP-UHFFFAOYSA-N
Formula: C23H20O5
SMILES: CCOC(=O)c1ccccc1C(=O)OCc1cccc(Oc2ccccc2)c1
Mol. weight [g/mol]: 376.40

Physical Properties

Property code	Value	Unit	Source
gf	-112.09	kJ/mol	Joback Method
hf	-453.22	kJ/mol	Joback Method
hfus	43.43	kJ/mol	Joback Method
hvap	95.67	kJ/mol	Joback Method
log10ws	-6.12		Crippen Method
logp	5.013		Crippen Method
mcvol	284.400	ml/mol	McGowan Method
pc	1753.60	kPa	Joback Method
rinpol	2949.00		NIST Webbook
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tb	990.64	K	Joback Method
tc	1236.90	K	Joback Method
tf	619.82	K	Joback Method
vc	1.065	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	875.19	J/mol×K	990.64	Joback Method
cpg	913.35	J/mol×K	1195.86	Joback Method
cpg	908.82	J/mol×K	1154.81	Joback Method
cpg	902.78	J/mol×K	1113.77	Joback Method
cpg	895.19	J/mol×K	1072.73	Joback Method
cpg	886.01	J/mol×K	1031.68	Joback Method
cpg	916.43	J/mol×K	1236.90	Joback Method
dvisc	0.0000290	Pa×s	990.64	Joback Method

dvisc	0.0000363	Pa×s	928.84	Joback Method
dvisc	0.0000468	Pa×s	867.03	Joback Method
dvisc	0.0000629	Pa×s	805.23	Joback Method
dvisc	0.0000887	Pa×s	743.43	Joback Method
dvisc	0.0001333	Pa×s	681.62	Joback Method
dvisc	0.0002170	Pa×s	619.82	Joback Method

Sources

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=U357032&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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