

Phthalic acid, 2-(4-chlorophenoxy)ethyl hexyl ester

Inchi:	InChI=1S/C22H25ClO5/c1-2-3-4-9-14-27-21(24)17-10-5-6-11-18(17)22(25)28-16-15-26-2
InchiKey:	YQEUOPSLRZXRLY-UHFFFAOYSA-N
Formula:	C22H25ClO5
SMILES:	CCCCCOC(=O)c1ccccc1C(=O)OCCOc1ccccc1Cl
Mol. weight [g/mol]:	404.88

Physical Properties

Property code	Value	Unit	Source
gf	-244.85	kJ/mol	Joback Method
hf	-684.85	kJ/mol	Joback Method
hfus	51.00	kJ/mol	Joback Method
hvap	95.55	kJ/mol	Joback Method
log10ws	-6.50		Crippen Method
logp	5.313		Crippen Method
mvol	306.310	ml/mol	McGowan Method
pc	1413.31	kPa	Joback Method
rinpol	2981.00		NIST Webbook
rinpol	2981.00		NIST Webbook
tb	978.51	K	Joback Method
tc	1206.59	K	Joback Method
tf	612.05	K	Joback Method
vc	1.167	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	946.09	J/molxK	978.51	Joback Method
cpg	958.00	J/molxK	1016.52	Joback Method
cpg	968.42	J/molxK	1054.54	Joback Method
cpg	977.39	J/molxK	1092.55	Joback Method
cpg	984.92	J/molxK	1130.57	Joback Method
cpg	991.06	J/molxK	1168.58	Joback Method
cpg	995.81	J/molxK	1206.59	Joback Method
dvisc	0.0002173	Paxs	612.05	Joback Method

dvisc	0.0001317	Paxs	673.13	Joback Method
dvisc	0.0000868	Paxs	734.20	Joback Method
dvisc	0.0000610	Paxs	795.28	Joback Method
dvisc	0.0000450	Paxs	856.36	Joback Method
dvisc	0.0000346	Paxs	917.43	Joback Method
dvisc	0.0000275	Paxs	978.51	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U377907&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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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