

Acetic acid, (4-chlorophenoxy)-, pentadecyl ester

Inchi:	InChI=1S/C23H37ClO3/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-19-26-23(25)20-27-22-17-15
InchiKey:	GNJJCFNQBVHWNR-UHFFFAOYSA-N
Formula:	C23H37ClO3
SMILES:	CCCCCCCCCCCCCOC(=O)COc1ccc(Cl)cc1
Mol. weight [g/mol]:	396.99

Physical Properties

Property code	Value	Unit	Source
gf	-105.29	kJ/mol	Joback Method
hf	-685.75	kJ/mol	Joback Method
hfus	57.15	kJ/mol	Joback Method
hvap	85.68	kJ/mol	Joback Method
log10ws	-7.84		Crippen Method
logp	7.353		Crippen Method
mvol	336.720	ml/mol	McGowan Method
pc	1028.60	kPa	Joback Method
rinpol	2193.00		NIST Webbook
rinpol	2193.00		NIST Webbook
tb	893.44	K	Joback Method
tc	1096.12	K	Joback Method
tf	512.22	K	Joback Method
vc	1.306	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1067.83	J/molxK	893.44	Joback Method
cpg	1085.26	J/molxK	927.22	Joback Method
cpg	1101.45	J/molxK	961.00	Joback Method
cpg	1116.44	J/molxK	994.78	Joback Method
cpg	1130.25	J/molxK	1028.56	Joback Method
cpg	1142.92	J/molxK	1062.34	Joback Method
cpg	1154.50	J/molxK	1096.12	Joback Method
dvisc	0.0004303	Paxs	512.22	Joback Method

dvisc	0.0002197	Paxs	575.76	Joback Method
dvisc	0.0001282	Paxs	639.29	Joback Method
dvisc	0.0000825	Paxs	702.83	Joback Method
dvisc	0.0000571	Paxs	766.37	Joback Method
dvisc	0.0000418	Paxs	829.90	Joback Method
dvisc	0.0000320	Paxs	893.44	Joback Method

Sources

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=U415108&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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