

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

Inchi:	InChI=1S/C26H43ClO3/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-22-29-26(28)23-30
InchiKey:	MUMWTAAGZDVYGP-UHFFFAOYSA-N
Formula:	C26H43ClO3
SMILES:	CCCCCCCCCCCCCCCCCOC(=O)COc1ccc(Cl)cc1
Mol. weight [g/mol]:	439.07

Physical Properties

Property code	Value	Unit	Source
gf	-80.03	kJ/mol	Joback Method
hf	-747.67	kJ/mol	Joback Method
hfus	64.92	kJ/mol	Joback Method
hvap	92.36	kJ/mol	Joback Method
log10ws	-9.09		Crippen Method
logp	8.523		Crippen Method
mvol	378.990	ml/mol	McGowan Method
pc	862.01	kPa	Joback Method
rinpol	2469.00		NIST Webbook
rinpol	2469.00		NIST Webbook
tb	962.08	K	Joback Method
tc	1178.19	K	Joback Method
tf	546.03	K	Joback Method
vc	1.474	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1254.15	J/molxK	962.08	Joback Method
cpg	1272.49	J/molxK	998.10	Joback Method
cpg	1289.36	J/molxK	1034.12	Joback Method
cpg	1304.81	J/molxK	1070.14	Joback Method
cpg	1318.89	J/molxK	1106.16	Joback Method
cpg	1331.65	J/molxK	1142.17	Joback Method
cpg	1343.15	J/molxK	1178.19	Joback Method
dvisc	0.0003014	Paxs	546.03	Joback Method

dvisc	0.0001493	Paxs	615.37	Joback Method
dvisc	0.0000853	Paxs	684.71	Joback Method
dvisc	0.0000540	Paxs	754.05	Joback Method
dvisc	0.0000369	Paxs	823.40	Joback Method
dvisc	0.0000268	Paxs	892.74	Joback Method
dvisc	0.0000204	Paxs	962.08	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=U415111&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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

Latest version available from:

<https://www.chemeo.com/cid/86-629-9/Acetic-acid-4-chlorophenoxy-octadecyl-ester.pdf>

Generated by Cheméo on 2024-04-24 04:47:32.642407054 +0000 UTC m=+16223301.562984378.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.