

Phenol, 3-ethyl-, acetate

Other names:	Phenol, m-ethyl-, acetate m-Ethylphenyl acetate 3-Ethylphenol, O-acetyl- 3-Ethylphenyl acetate
Inchi:	InChI=1S/C10H12O2/c1-3-9-5-4-6-10(7-9)12-8(2)11/h4-7H,3H2,1-2H3
InchiKey:	KAGKFSYVRVNAND-UHFFFAOYSA-N
Formula:	C10H12O2
SMILES:	CCc1cccc(OC(C)=O)c1
Mol. weight [g/mol]:	164.20
CAS:	3056-60-8

Physical Properties

Property code	Value	Unit	Source
gf	-97.82	kJ/mol	Joback Method
hf	-269.47	kJ/mol	Joback Method
hfus	18.10	kJ/mol	Joback Method
hvap	49.95	kJ/mol	Joback Method
log10ws	-2.59		Crippen Method
logp	2.174		Crippen Method
mcvol	135.440	ml/mol	McGowan Method
pc	3032.27	kPa	Joback Method
rinpol	1256.00		NIST Webbook
rinpol	1256.00		NIST Webbook
tb	536.15	K	Joback Method
tc	749.95	K	Joback Method
tf	313.56	K	Joback Method
vc	0.511	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.27	J/mol×K	536.15	Joback Method
cpg	313.54	J/mol×K	571.78	Joback Method
cpg	326.10	J/mol×K	607.42	Joback Method

cpg	337.97	J/molxK	643.05	Joback Method
cpg	349.15	J/molxK	678.68	Joback Method
cpg	359.66	J/molxK	714.31	Joback Method
cpg	369.52	J/molxK	749.95	Joback Method
dvisc	0.0017515	Paxs	313.56	Joback Method
dvisc	0.0010200	Paxs	350.66	Joback Method
dvisc	0.0006587	Paxs	387.76	Joback Method
dvisc	0.0004592	Paxs	424.86	Joback Method
dvisc	0.0003392	Paxs	461.95	Joback Method
dvisc	0.0002621	Paxs	499.05	Joback Method
dvisc	0.0002099	Paxs	536.15	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=C3056608&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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