

4-Ethylphenoxyacetic acid

Other names:	Acetic acid, (4-ethylphenoxy)-
Inchi:	InChI=1S/C10H12O3/c1-2-8-3-5-9(6-4-8)13-7-10(11)12/h3-6H,2,7H2,1H3,(H,11,12)
InchiKey:	WVELHLIHMYYZAT-UHFFFAOYSA-N
Formula:	C10H12O3
SMILES:	CCc1ccc(OCC(=O)O)cc1
Mol. weight [g/mol]:	180.20
CAS:	24431-27-4

Physical Properties

Property code	Value	Unit	Source
gf	-234.64	kJ/mol	Joback Method
hf	-421.70	kJ/mol	Joback Method
hfus	22.18	kJ/mol	Joback Method
hvap	66.63	kJ/mol	Joback Method
log10ws	-1.91		Crippen Method
logp	1.712		Crippen Method
mcvol	141.310	ml/mol	McGowan Method
pc	3364.54	kPa	Joback Method
tb	628.33	K	Joback Method
tc	827.77	K	Joback Method
tf	374.38	K	Joback Method
vc	0.530	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.22	J/mol×K	628.33	Joback Method
cpg	361.17	J/mol×K	661.57	Joback Method
cpg	371.50	J/mol×K	694.81	Joback Method
cpg	381.24	J/mol×K	728.05	Joback Method
cpg	390.39	J/mol×K	761.29	Joback Method
cpg	398.96	J/mol×K	794.53	Joback Method
cpg	406.96	J/mol×K	827.77	Joback Method
dvisc	0.0024094	Pa×s	374.38	Joback Method

dvisc	0.0009783	Pa×s	416.70	Joback Method
dvisc	0.0004691	Pa×s	459.03	Joback Method
dvisc	0.0002546	Pa×s	501.35	Joback Method
dvisc	0.0001520	Pa×s	543.68	Joback Method
dvisc	0.0000978	Pa×s	586.00	Joback Method
dvisc	0.0000667	Pa×s	628.33	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C24431274&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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