

4-Ethoxycinnamic acid

Other names:	p-Ethoxy cinnamic acid
Inchi:	InChI=1S/C11H12O3/c1-2-14-10-6-3-9(4-7-10)5-8-11(12)13/h3-8H,2H2,1H3,(H,12,13)/b
InchiKey:	DZLOUWYGNATKKZ-VMPITWQZSA-N
Formula:	C11H12O3
SMILES:	CCOc1ccc(C=CC(=O)O)cc1
Mol. weight [g/mol]:	192.21
CAS:	2373-79-7

Physical Properties

Property code	Value	Unit	Source
gf	-146.00	kJ/mol	Joback Method
hf	-325.12	kJ/mol	Joback Method
hfus	24.98	kJ/mol	Joback Method
hvap	68.81	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	2.183		Crippen Method
mcvol	151.100	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
tb	655.37	K	Joback Method
tc	859.69	K	Joback Method
tf	380.57	K	Joback Method
vc	0.567	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	376.78	J/molxK	655.37	Joback Method
cpg	425.49	J/molxK	825.64	Joback Method
cpg	416.98	J/molxK	791.59	Joback Method
cpg	407.88	J/molxK	757.53	Joback Method
cpg	398.16	J/molxK	723.48	Joback Method
cpg	387.81	J/molxK	689.42	Joback Method
cpg	433.44	J/molxK	859.69	Joback Method
dvisc	0.0000479	Paxs	655.37	Joback Method

dvisc	0.0000707	Paxs	609.57	Joback Method
dvisc	0.0001111	Paxs	563.77	Joback Method
dvisc	0.0001892	Paxs	517.97	Joback Method
dvisc	0.0003571	Paxs	472.17	Joback Method
dvisc	0.0007726	Paxs	426.37	Joback Method
dvisc	0.0020128	Paxs	380.57	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C2373797&Units=SI

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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