

P-(2-hydroxyethoxy) cinnamic acid

Inchi:	InChI=1S/C11H12O4/c12-7-8-15-10-4-1-9(2-5-10)3-6-11(13)14/h1-6,12H,7-8H2,(H,13,14)
InchiKey:	RROKPIBZNXEYTC-ZZXKWWIFSA-N
Formula:	C11H12O4
SMILES:	O=C(O)C=Cc1ccc(OCCO)cc1
Mol. weight [g/mol]:	208.21
CAS:	60345-99-5

Physical Properties

Property code	Value	Unit	Source
gf	-282.82	kJ/mol	Joback Method
hf	-477.35	kJ/mol	Joback Method
hfus	29.06	kJ/mol	Joback Method
hvap	85.49	kJ/mol	Joback Method
log10ws	-1.61		Crippen Method
logp	1.155		Crippen Method
mcvol	156.970	ml/mol	McGowan Method
pc	3560.02	kPa	Joback Method
tb	747.55	K	Joback Method
tc	942.76	K	Joback Method
tf	441.39	K	Joback Method
vc	0.586	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.89	J/molxK	747.55	Joback Method
cpg	462.69	J/molxK	910.23	Joback Method
cpg	455.75	J/molxK	877.69	Joback Method
cpg	448.33	J/molxK	845.16	Joback Method
cpg	440.39	J/molxK	812.62	Joback Method
cpg	431.92	J/molxK	780.09	Joback Method
cpg	469.17	J/molxK	942.76	Joback Method
dvisc	0.0000080	Paxs	747.55	Joback Method
dvisc	0.0000131	Paxs	696.52	Joback Method

dvisc	0.0000235	Paxs	645.50	Joback Method
dvisc	0.0000463	Paxs	594.47	Joback Method
dvisc	0.0001038	Paxs	543.44	Joback Method
dvisc	0.0002752	Paxs	492.42	Joback Method
dvisc	0.0009140	Paxs	441.39	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C60345995&Units=SI
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

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
mccvol:	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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