

ETHYL 3-HYDROXYBENZOATE

Other names:	3-hydroxybenzoic acid ethyl ester benzoic acid, 3-hydroxy-, ethyl ester benzoic acid, m-hydroxy-, ethyl ester ethyl m-hydroxybenzoate m-Hydroxybenzoic acid ethyl ester m-ethoxycarbonylphenol
Inchi:	InChI=1S/C9H10O3/c1-2-12-9(11)7-4-3-5-8(10)6-7/h3-6,10H,2H2,1H3
InchiKey:	MWSMNBYIEBRXAL-UHFFFAOYSA-N
Formula:	C9H10O3
SMILES:	CCOC(=O)c1cccc(O)c1
Mol. weight [g/mol]:	166.18

Physical Properties

Property code	Value	Unit	Source
af	0.6390		Cheméo Relay (1.0)
gf	-251.23	kJ/mol	Joback Method
hf	-485.21	kJ/mol	Cheméo Relay (1.0)
hfus	21.68	kJ/mol	Joback Method
hvap	79.73	kJ/mol	Cheméo Relay (1.0)
ie	8.67	eV	Cheméo Relay (1.0)
log10ws	-1.82		Cheméo Relay (1.0)
logp	1.569		Crippen Method
mcvol	127.220	ml/mol	McGowan Method
pc	4130.29	kPa	Joback Method
tb	568.20	K	NIST Webbook
tc	748.52	K	Cheméo Relay (1.0)
tf	343.84	K	Cheméo Relay (1.0)
vc	0.455	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	304.03	J/mol×K	588.91	Joback Method
cpg	361.35	J/mol×K	816.64	Joback Method

cpg	353.29	J/mol×K	778.68	Joback Method
cpg	344.71	J/mol×K	740.73	Joback Method
cpg	335.56	J/mol×K	702.77	Joback Method
cpg	325.77	J/mol×K	664.82	Joback Method
cpg	315.28	J/mol×K	626.86	Joback Method
dvisc	0.0001481	Pa×s	495.20	Joback Method
dvisc	0.0000400	Pa×s	588.91	Joback Method
dvisc	0.0000590	Pa×s	557.67	Joback Method
dvisc	0.0000909	Pa×s	526.44	Joback Method
dvisc	0.0010100	Pa×s	401.49	Joback Method
dvisc	0.0002577	Pa×s	463.96	Joback Method
dvisc	0.0004856	Pa×s	432.73	Joback Method
hvapt	78.40	kJ/mol	360.00	Gas-phase enthalpies of formation of ethyl hydroxybenzoates: An experimental and theoretical approach

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	460.70	K	4.10	NIST Webbook
tbrp	484.20	K	8.70	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
Gas-phase enthalpies of formation of ethyl hydroxybenzoates: An experimental and theoretical approach:	https://www.doi.org/10.1016/j.jct.2017.09.007
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7781988&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

af:	Acentric Factor
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
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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