

«beta»-Ethoxystyrene

Inchi:	InChI=1S/C10H12O/c1-2-11-9-8-10-6-4-3-5-7-10/h3-9H,2H2,1H3/b9-8+
InchiKey:	FZHNODDFDJBMAS-CMDGGGOBGSA-N
Formula:	C10H12O
SMILES:	CCOC=Cc1ccccc1
Mol. weight [g/mol]:	148.20

Physical Properties

Property code	Value	Unit	Source
gf	120.95	kJ/mol	Joback Method
hf	-28.20	kJ/mol	Joback Method
hfus	17.09	kJ/mol	Joback Method
hvap	42.50	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	2.694		Crippen Method
mcvol	129.570	ml/mol	McGowan Method
pc	3045.68	kPa	Joback Method
rinpol	1214.00		NIST Webbook
tb	481.46	K	Joback Method
tc	694.56	K	Joback Method
tf	246.03	K	Joback Method
vc	0.485	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	264.19	J/mol×K	481.46	Joback Method
cpg	278.49	J/mol×K	516.98	Joback Method
cpg	291.95	J/mol×K	552.49	Joback Method
cpg	304.62	J/mol×K	588.01	Joback Method
cpg	316.53	J/mol×K	623.53	Joback Method
cpg	327.71	J/mol×K	659.05	Joback Method
cpg	338.19	J/mol×K	694.56	Joback Method
dvisc	0.0025672	Paxs	246.03	Joback Method
dvisc	0.0011843	Paxs	285.27	Joback Method

dvisc	0.0006588	Paxs	324.51	Joback Method
dvisc	0.0004159	Paxs	363.75	Joback Method
dvisc	0.0002871	Paxs	402.98	Joback Method
dvisc	0.0002117	Paxs	442.22	Joback Method
dvisc	0.0001641	Paxs	481.46	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R318095&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

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

Latest version available from:

<https://www.chemeo.com/cid/10-752-5/beta-Ethoxystyrene.pdf>

Generated by Cheméo on 2024-04-23 15:10:40.071961843 +0000 UTC m=+16174288.992539168.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.