Benzeneethanol, 4-fluoro-

Other names:	Phenethyl alcohol, p-fluoro- para-Fluorophenethyl alcohol 4-Fluorophenethyl alcohol 4-fluorophenethylic alcohol
Inchi:	InChI=1S/C8H9FO/c9-8-3-1-7(2-4-8)5-6-10/h1-4,10H,5-6H2
InchiKey:	MWUVGXCUHWKQJE-UHFFFAOYSA-N
Formula:	C8H9FO
SMILES:	OCCc1ccc(F)cc1
Mol. weight [g/mol]:	140.15
CAS:	7589-27-7

Physical Properties

Property code	Value	Unit	Source
gf	-212.37	kJ/mol	Joback Method
hf	-331.73	kJ/mol	Joback Method
hfus	17.30	kJ/mol	Joback Method
hvap	52.20	kJ/mol	Joback Method
log10ws	-1.87		Crippen Method
logp	1.361		Crippen Method
mcvol	107.460	ml/mol	McGowan Method
pc	3796.32	kPa	Joback Method
tb	505.55	K	Joback Method
tc	694.49	K	Joback Method
tf	280.27	K	Joback Method
vc	0.412	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.69	J/mol×K	505.55	Joback Method
cpg	241.53	J/mol×K	537.04	Joback Method
cpg	250.85	J/mol×K	568.53	Joback Method
cpg	259.67	J/mol×K	600.02	Joback Method
cpg	268.01	J/mol×K	631.51	Joback Method

cpg	275.88	J/mol×K	663.00	Joback Method
cpg	283.32	J/mol×K	694.49	Joback Method

Sources

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=C7589277&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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