BENZENE, 4-ETHYL-1,2-DIMETHOXY-

Other names: 4-Ethyl-1,2-dimethoxybenzene
4-Ethyl-2-methoxyanisole
Inchi: InChI=1S/C10H14O2/c1-4-8-5-6-9(11-2)10(7-8)12-3/h5-7H,4H2,1-3H3
InchiKey: NEBQMYHKOREVAL-UHFFFAOYSA-N
Formula: C10H14O2
SMILES: CCc1ccc(OC)c(OC)c1
Mol. weight [g/mol]: 166.22

Physical Properties

Property code	Value	Unit	Source
af	0.5327		Cheméo Relay (1.0)
hfus	17.29	kJ/mol	Joback Method
hvap	66.74	kJ/mol	Cheméo Relay (1.0)
ie	7.90	eV	Cheméo Relay (1.0)
log10ws	-2.76		Cheméo Relay (1.0)
logp	2.266		Crippen Method
mcvol	139.740	ml/mol	McGowan Method
pc	2738.28	kPa	Joback Method
ripol	1875.00		NIST Webbook
ripol	1875.00		NIST Webbook
tb	504.10	K	Cheméo Relay (1.0)
tc	699.30	K	Cheméo Relay (1.0)
tf	281.09	K	Cheméo Relay (1.0)
vc	0.522	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.17	J/mol×K	509.68	Joback Method
cpg	319.83	J/mol×K	543.66	Joback Method
cpg	332.95	J/mol×K	577.64	Joback Method
cpg	345.51	J/mol×K	611.62	Joback Method
cpg	357.50	J/mol×K	645.60	Joback Method
cpg	368.93	J/mol×K	679.58	Joback Method

cpg	379.79	J/mol×K	713.56	Joback Method
dvisc	0.0011096	Pa×s	298.38	Joback Method
dvisc	0.0006697	Pa×s	333.60	Joback Method
dvisc	0.0004451	Pa×s	368.81	Joback Method
dvisc	0.0003177	Pa×s	404.03	Joback Method
dvisc	0.0002393	Pa×s	439.25	Joback Method
dvisc	0.0001880	Pa×s	474.46	Joback Method
dvisc	0.0001528	Pa×s	509.68	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C5888517&Units=SI
Joback Method: https://en.wikipedia.org/wiki/Joback_method
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):

Legend

af: Acentric Factor
cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume