P-ANISALDEHYDE DIMETHYL ACETAL

Other names:	p-Anisaldehyde dimethyl acetal
	Benzene, 1-(dimethoxymethyl)-4-methoxy-
	Anisicaldehyde dimethylacetal
	Dimethylacetal anisaldehyde
	p-(dimethoxymethyl)anisole
Inchi:	InChI=1S/C10H14O3/c1-11-9-6-4-8(5-7-9)10(12-2)13-3/h4-7,10H,1-3H3
InchiKey:	NNHYAHOTXLASEA-UHFFFAOYSA-N
Formula:	C10H14O3
SMILES:	COc1ccc(C(OC)OC)cc1
Mol. weight [g/mol]:	182.22

Physical Properties

Property code	Value	Unit	Source
hf	-412.38	kJ/mol	Cheméo Relay (1.0)
hfus	15.35	kJ/mol	Joback Method
hvap	63.23	kJ/mol	Cheméo Relay (1.0)
ie	8.24	eV	Cheméo Relay (1.0)
log10ws	-1.59		Cheméo Relay (1.0)
logp	1.987		Crippen Method
mcvol	145.610	ml/mol	McGowan Method
pc	2755.56	kPa	Joback Method
tb	511.28	K	Cheméo Relay (1.0)
tc	712.65	K	Cheméo Relay (1.0)
tf	299.56	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.62	J/mol×K	526.68	Joback Method
cpg	406.50	J/mol×K	732.05	Joback Method
cpg	395.40	J/mol×K	697.82	Joback Method
cpg	383.67	J/mol×K	663.59	Joback Method
cpg	371.31	J/mol×K	629.36	Joback Method
cpg	358.34	J/mol×K	595.14	Joback Method

cpg	344.77	J/mol×K	560.91	Joback Method
dvisc	0.0003000	Pa×s	409.89	Joback Method
dvisc	0.0001236	Pa×s	526.68	Joback Method
dvisc	0.0001585	Pa×s	487.75	Joback Method
dvisc	0.0002121	Pa×s	448.82	Joback Method
dvisc	0.0014750	Pa×s	293.09	Joback Method
dvisc	0.0004563	Pa×s	370.95	Joback Method
dvisc	0.0007659	Pa×s	332.02	Joback Method

Sources

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):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2186927&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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