1,2-Dimethoxy-4-n-propylbenzene

Other names:	Benzene, 1,2-dimethoxy-4-propyl- Dihydromethyleugenol 1,2-Dimethoxy-4-propylbenzene
Inchi:	InChI=1S/C11H16O2/c1-4-5-9-6-7-10(12-2)11(8-9)13-3/h6-8H,4-5H2,1-3H3
InchiKey:	YXLFQKUIZVSIEP-UHFFFAOYSA-N
Formula:	C11H16O2
SMILES:	CCCc1ccc(OC)c(OC)c1
Mol. weight [g/mol]:	180.24
CAS:	5888-52-8

Physical Properties

Property code	Value	Unit	Source
gf	-75.11	kJ/mol	Joback Method
hf	-321.22	kJ/mol	Joback Method
hfus	19.89	kJ/mol	Joback Method
hvap	48.50	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	2.656		Crippen Method
mcvol	153.830	ml/mol	McGowan Method
pc	2482.59	kPa	Joback Method
tb	532.56	K	Joback Method
tc	733.53	K	Joback Method
tf	309.65	K	Joback Method
vc	0.580	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.48	J/mol×K	532.56	Joback Method
cpg	366.13	J/mol×K	566.05	Joback Method
cpg	380.17	J/mol×K	599.55	Joback Method
cpg	393.58	J/mol×K	633.04	Joback Method
cpg	406.38	J/mol×K	666.54	Joback Method
cpg	418.55	J/mol×K	700.03	Joback Method

cpg	430.10	J/mol×K	733.53	Joback Method
dvisc	0.0011230	Pa×s	309.65	Joback Method
dvisc	0.0006634	Pa×s	346.80	Joback Method
dvisc	0.0004340	Pa×s	383.95	Joback Method
dvisc	0.0003060	Pa×s	421.10	Joback Method
dvisc	0.0002283	Pa×s	458.26	Joback Method
dvisc	0.0001780	Pa×s	495.41	Joback Method
dvisc	0.0001437	Pa×s	532.56	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	417.00 ± 1.00	K	2.70	NIST Webbook

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=C5888528&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
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
tb: Normal Boiling Point Temperature

tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume