

# 4-(3,5-Dimethoxydecyl)-1,2-dimethoxybenzene

<b>Inchi:</b>	InChI=1S/C20H34O4/c1-6-7-8-9-17(21-2)15-18(22-3)12-10-16-11-13-19(23-4)20(14-16)2
<b>InchiKey:</b>	HAKUXQDCFCWGJP-UHFFFAOYSA-N
<b>Formula:</b>	C20H34O4
<b>SMILES:</b>	CCCCC(CC(CCc1ccc(OC)c(OC)c1)OC)OC
<b>Mol. weight [g/mol]:</b>	338.48

## Physical Properties

Property code	Value	Unit	Source
gf	-214.21	kJ/mol	Joback Method
hf	-781.98	kJ/mol	Joback Method
hfus	38.52	kJ/mol	Joback Method
hvap	72.58	kJ/mol	Joback Method
log10ws	-5.10		Crippen Method
logp	4.637		Crippen Method
mcvol	292.380	ml/mol	McGowan Method
pc	1198.13	kPa	Joback Method
rinpol	2343.70		NIST Webbook
rinpol	2343.70		NIST Webbook
tb	782.44	K	Joback Method
tc	972.92	K	Joback Method
tf	425.54	K	Joback Method
vc	1.107	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	895.21	J/molxK	782.44	Joback Method
cpg	978.18	J/molxK	941.17	Joback Method
cpg	963.89	J/molxK	909.43	Joback Method
cpg	948.44	J/molxK	877.68	Joback Method
cpg	931.84	J/molxK	845.93	Joback Method
cpg	914.09	J/molxK	814.19	Joback Method
cpg	991.33	J/molxK	972.92	Joback Method
dvisc	0.0000284	Paxs	782.44	Joback Method

dvisc	0.0000377	Paxs	722.96	Joback Method
dvisc	0.0000526	Paxs	663.47	Joback Method
dvisc	0.0000784	Paxs	603.99	Joback Method
dvisc	0.0001274	Paxs	544.51	Joback Method
dvisc	0.0002335	Paxs	485.02	Joback Method
dvisc	0.0005067	Paxs	425.54	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U412842&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U412842&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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