

# Ether, dodecyl phenyl

<b>Inchi:</b>	InChI=1S/C18H30O/c1-2-3-4-5-6-7-8-9-10-14-17-19-18-15-12-11-13-16-18/h11-13,15-16
<b>InchiKey:</b>	CRBREIOFEDVXGE-UHFFFAOYSA-N
<b>Formula:</b>	C18H30O
<b>SMILES:</b>	CCCCCCCCCCCCOc1ccccc1
<b>Mol. weight [g/mol]:</b>	262.43
<b>CAS:</b>	35021-68-2

## Physical Properties

Property code	Value	Unit	Source
gf	108.09	kJ/mol	Joback Method
hf	-310.54	kJ/mol	Joback Method
hfus	37.60	kJ/mol	Joback Method
hvap	60.35	kJ/mol	Joback Method
log10ws	-6.20		Crippen Method
logp	5.986		Crippen Method
mcvol	246.590	ml/mol	McGowan Method
pc	1443.54	kPa	Joback Method
tb	660.34	K	Joback Method
tc	845.17	K	Joback Method
tf	341.27	K	Joback Method
vc	0.954	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	684.20	J/molxK	660.34	Joback Method
cpg	703.50	J/molxK	691.14	Joback Method
cpg	721.81	J/molxK	721.95	Joback Method
cpg	739.18	J/molxK	752.75	Joback Method
cpg	755.63	J/molxK	783.56	Joback Method
cpg	771.20	J/molxK	814.36	Joback Method
cpg	785.90	J/molxK	845.17	Joback Method
dvisc	0.0020452	Paxs	341.27	Joback Method
dvisc	0.0008710	Paxs	394.45	Joback Method

dvisc	0.0004543	Paxs	447.63	Joback Method
dvisc	0.0002721	Paxs	500.80	Joback Method
dvisc	0.0001798	Paxs	553.98	Joback Method
dvisc	0.0001278	Paxs	607.16	Joback Method
dvisc	0.0000959	Paxs	660.34	Joback Method

## Sources

<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=C35021682&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35021682&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>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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