

# 6-(p-Tolyl)-2-methyl-2-heptenol, trans-

**Other names:**

(.+/-.)-trans-Nuciferol  
2-Hepten-1-ol, 2-methyl-6-(4-methylphenyl)-, (E)-(.+/-.)-  
(.+/-.)-(E)-Nuciferol  
(2E)-2-Methyl-6-(4-methylphenyl)-2-hepten-1-ol  
trans-Nuciferol  
(E)-Nuciferol  
Nuciferol (E)  
Nuciferol

**Inchi:**

InChI=1S/C15H22O/c1-12-7-9-15(10-8-12)14(3)6-4-5-13(2)11-16/h5,7-10,14,16H,4,6,11

**InchiKey:**

FXCIQPDJVYFUQG-WLRTZDKTSA-N

**Formula:**

C15H22O

**SMILES:**

CC(=CCCC(C)c1ccc(C)cc1)CO

**Mol. weight [g/mol]:**

218.33

**CAS:**

39599-18-3

## Physical Properties

Property code	Value	Unit	Source
gf	110.61	kJ/mol	Joback Method
hf	-177.95	kJ/mol	Joback Method
hfus	27.71	kJ/mol	Joback Method
hvap	68.25	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	3.817		Crippen Method
mcvol	200.020	ml/mol	McGowan Method
pc	2094.58	kPa	Joback Method
tb	670.04	K	Joback Method
tc	865.73	K	Joback Method
tf	324.53	K	Joback Method
vc	0.761	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.91	J/molxK	670.04	Joback Method

cpg	554.16	J/mol×K	702.66	Joback Method
cpg	568.57	J/mol×K	735.27	Joback Method
cpg	582.17	J/mol×K	767.89	Joback Method
cpg	595.02	J/mol×K	800.50	Joback Method
cpg	607.16	J/mol×K	833.12	Joback Method
cpg	618.65	J/mol×K	865.73	Joback Method

## Sources

<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>
<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=C39599183&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C39599183&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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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