

# 5-Heptylresorcinol

<b>Other names:</b>	1,3-Benzenediol, 5-heptyl-
<b>Inchi:</b>	InChI=1S/C13H20O2/c1-2-3-4-5-6-7-11-8-12(14)10-13(15)9-11/h8-10,14-15H,2-7H2,1H3
<b>InchiKey:</b>	QENPJKGNOZEEJ-UHFFFAOYSA-N
<b>Formula:</b>	C13H20O2
<b>SMILES:</b>	CCCCCCCc1cc(O)cc(O)c1
<b>Mol. weight [g/mol]:</b>	208.30
<b>CAS:</b>	500-67-4

## Physical Properties

Property code	Value	Unit	Source
gf	-138.25	kJ/mol	Joback Method
hf	-429.74	kJ/mol	Joback Method
hfus	35.03	kJ/mol	Joback Method
hvap	72.84	kJ/mol	Joback Method
log10ws	-3.46		Crippen Method
logp	3.611		Crippen Method
mcvol	182.010	ml/mol	McGowan Method
pc	2963.34	kPa	Joback Method
tb	684.76	K	Joback Method
tc	901.66	K	Joback Method
tf	486.13	K	Joback Method
vc	0.588	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	509.57	J/molxK	684.76	Joback Method
cpg	523.63	J/molxK	720.91	Joback Method
cpg	536.95	J/molxK	757.06	Joback Method
cpg	549.64	J/molxK	793.21	Joback Method
cpg	561.82	J/molxK	829.36	Joback Method
cpg	573.63	J/molxK	865.51	Joback Method
cpg	585.19	J/molxK	901.66	Joback Method
dvisc	0.0001000	Paxs	486.13	Joback Method

dvisc	0.0000421	Paxs	519.24	Joback Method
dvisc	0.0000197	Paxs	552.34	Joback Method
dvisc	0.0000100	Paxs	585.44	Joback Method
dvisc	0.0000055	Paxs	618.55	Joback Method
dvisc	0.0000032	Paxs	651.65	Joback Method
dvisc	0.0000020	Paxs	684.76	Joback Method
hvapt	91.60	kJ/mol	473.50	NIST Webbook

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	490.00	K	1.90	NIST Webbook

## 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=C500674&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C500674&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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

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

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