

2-(«alpha»-Methylbenzyl)-p-cresol

Inchi:	InChI=1S/C15H16O/c1-11-8-9-15(16)14(10-11)12(2)13-6-4-3-5-7-13/h3-10,12,16H,1-2H
InchiKey:	DJRYJQNZAYJVGF-UHFFFAOYSA-N
Formula:	C15H16O
SMILES:	<chem>Cc1ccc(O)c(C(C)c2ccccc2)c1</chem>
Mol. weight [g/mol]:	212.29
CAS:	1817-67-0

Physical Properties

Property code	Value	Unit	Source
gf	133.55	kJ/mol	Joback Method
hf	-73.93	kJ/mol	Joback Method
hfus	24.56	kJ/mol	Joback Method
hvap	66.82	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	3.852		Crippen Method
mcvol	180.560	ml/mol	McGowan Method
pc	2909.25	kPa	Joback Method
rinpol	1766.60		NIST Webbook
tb	681.12	K	Joback Method
tc	930.41	K	Joback Method
tf	420.89	K	Joback Method
vc	0.620	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	476.89	J/molxK	681.12	Joback Method
cpg	492.85	J/molxK	722.67	Joback Method
cpg	507.63	J/molxK	764.22	Joback Method
cpg	521.38	J/molxK	805.76	Joback Method
cpg	534.23	J/molxK	847.31	Joback Method
cpg	546.33	J/molxK	888.86	Joback Method
cpg	557.81	J/molxK	930.41	Joback Method
dvisc	0.0007566	Paxs	420.89	Joback Method

dvisc	0.0002920	Paxs	464.26	Joback Method
dvisc	0.0001326	Paxs	507.63	Joback Method
dvisc	0.0000682	Paxs	551.01	Joback Method
dvisc	0.0000386	Paxs	594.38	Joback Method
dvisc	0.0000237	Paxs	637.75	Joback Method
dvisc	0.0000154	Paxs	681.12	Joback Method

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=C1817670&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/64-624-8/2-alpha-Methylbenzyl-p-cresol.pdf>

Generated by Cheméo on 2024-04-26 19:42:19.906783109 +0000 UTC m=+16449788.827360421.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.