

4-sec-Butyl-2-(«alpha»-methylbenzyl)phenol

Other names:

4-sec-Butyl-2-(«alpha»-methylbenzyl)alcohol
Phenol, 4-(1-methylpropyl)-2-(1-phenylethyl)-
Phenol, 4-sec-butyl-2-(«alpha»-methylbenzyl)-
4-(1-methylpropyl)-2-(1-phenylethyl)phenol
4-Sec-butyl-2-(a-methylbenzyl)phenol

Inchi: InChI=1S/C18H22O/c1-4-13(2)16-10-11-18(19)17(12-16)14(3)15-8-6-5-7-9-15/h5-14,19H**InchiKey:** QJNBIFRUSFIANU-UHFFFAOYSA-N**Formula:** C18H22O**SMILES:** CCC(C)c1ccc(O)c(C(C)c2ccccc2)c1**Mol. weight [g/mol]:** 254.37**CAS:** 2622-83-5

Physical Properties

Property code	Value	Unit	Source
gf	156.37	kJ/mol	Joback Method
hf	-141.13	kJ/mol	Joback Method
hfus	28.81	kJ/mol	Joback Method
hvap	73.11	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	5.058		Crippen Method
mcvol	222.830	ml/mol	McGowan Method
pc	2195.89	kPa	Joback Method
tb	749.32	K	Joback Method
tc	988.04	K	Joback Method
tf	439.70	K	Joback Method
vc	0.781	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	637.42	J/molxK	749.32	Joback Method
cpg	714.44	J/molxK	948.26	Joback Method
cpg	700.76	J/molxK	908.47	Joback Method
cpg	686.35	J/molxK	868.68	Joback Method

cpg	671.09	J/molxK	828.89	Joback Method
cpg	654.82	J/molxK	789.11	Joback Method
cpg	727.53	J/molxK	988.04	Joback Method
dvisc	0.0000077	Paxs	749.32	Joback Method
dvisc	0.0000121	Paxs	697.72	Joback Method
dvisc	0.0000205	Paxs	646.11	Joback Method
dvisc	0.0000381	Paxs	594.51	Joback Method
dvisc	0.0000797	Paxs	542.91	Joback Method
dvisc	0.0001944	Paxs	491.30	Joback Method
dvisc	0.0005848	Paxs	439.70	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	450.00 ± 3.00	K	0.30	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2622835&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
tb:	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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