2-propylresorcinol

| Inchi: | InChI=1S/C9H12O2/c1-2-4-7-8(10)5-3-6-9(7)11/h3,5-6,10-11H,2,4H2,1H3 |
|----------------------|---|
| InchiKey: | XDCMHOFEBFTMNL-UHFFFAOYSA-N |
| Formula: | C9H12O2 |
| SMILES: | CCCc1c(O)cccc1O |
| Mol. weight [g/mol]: | 152.19 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|---|
| gf | -171.93 | kJ/mol | Joback Method |
| hf | -347.18 | kJ/mol | Joback Method |
| hfus | 24.67 | kJ/mol | Joback Method |
| hvap | 63.93 | kJ/mol | Joback Method |
| log10ws | -1.79 | | Crippen Method |
| logp | 2.050 | | Crippen Method |
| mcvol | 125.650 | ml/mol | McGowan Method |
| рс | 4736.62 | kPa | Joback Method |
| tb | 593.24 | К | Joback Method |
| tc | 826.79 | К | Joback Method |
| tf | 377.90 | К | Vapour pressure data for 2-n-propylresorcinol, 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry |
| VC | 0.363 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 314.64 | J/mol×K | 593.24 | Joback Method |
| cpg | 325.87 | J/mol×K | 632.17 | Joback Method |
| cpg | 336.27 | J/mol×K | 671.09 | Joback Method |
| cpg | 345.97 | J/mol×K | 710.02 | Joback Method |
| cpg | 355.11 | J/mol×K | 748.94 | Joback Method |
| cpg | 363.83 | J/mol×K | 787.87 | Joback Method |
| | | | | |

| cpg | 372.27 | J/mol×K | 826.79 | Joback Method |
|-------|-----------|---------|--------|---------------|
| dvisc | 0.0002757 | Pa×s | 441.05 | Joback Method |
| dvisc | 0.0001281 | Paxs | 466.42 | Joback Method |
| dvisc | 0.0000644 | Paxs | 491.78 | Joback Method |
| dvisc | 0.0000346 | Paxs | 517.14 | Joback Method |
| dvisc | 0.0000197 | Paxs | 542.51 | Joback Method |
| dvisc | 0.0000118 | Paxs | 567.88 | Joback Method |
| dvisc | 0.0000074 | Paxs | 593.24 | Joback Method |

Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---------------|--------|------|----------------|---|
| tbp | 470.60 | К | 9.92 | Vapour pressure data for 2-n-propylresorcinol 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry |
| tbp | 491.40 | К | 19.83 | Vapour pressure data for 2-n-propylresorcinol 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry |
| tbp | 504.70 | К | 29.79 | Vapour pressure data for 2-n-propylresorcinol 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry |

| tbp | 523.40 | К | 49.69 | Vapour pressure data for 2-n-propylresorcinol, 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry |
|-----|--------|---|--------|--|
| tbp | 536.40 | K | 69.61 | Vapour pressure data for 2-n-propylresorcinol, 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry |
| tbp | 551.10 | К | 98.91 | Vapour pressure data for 2-n-propylresorcinol, 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry |
| tbp | 582.80 | К | 198.31 | Vapour pressure data for 2-n-propylresorcinol, 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry |
| tbp | 605.40 | K | 299.37 | Vapour pressure data for 2-n-propylresorcinol, 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry |

| tbp 618.90 K 400.46 Vapour pressure data for 2-n-propylresorcinol, 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry | | | | | |
|--|-----|--------|---|--------|--|
| | tbp | 618.90 | К | 400.46 | data for 2-n-propylresorcinol, 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning |

Sources

Crippen Method:

Crippen Method:

http://pubs.acs.org/doi/abs/10.1021/ci990307I https://www.chemeo.com/doc/models/crippen_log10ws Vapour pressure data for 2-n-propylresorcinol, 4-ethylresorcinol and the source of the https://www.doi.org/10.1016/j.jct.2019.03.008 http://link.springer.com/article/10.1007/BF02311772

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 |
| tbp: | Boiling point at given pressure |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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