# Tetra-N-butylammonium bromide

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|---|---|
| **Other names:** | 1-Butanaminium, N,N,N-tributyl-, bromide |
| | N,N,N-tributyl-1-butanaminium bromide |
| | N-butyl-N,N-bis(1-methylpropyl)-1-butanaminium bromide |
| | TBAB |
| | di-n-butyl-di-sec-butylammonium bromide |
| | tetrabutylammonium bromide |
| **Inchi:** | InChI=1S/C16H36N.BrH/c1-5-9-13-17(14-10-6-2,15-11-7-3)16-12-8-4;/h5-16H2,1-4H3;1H |
| **InchiKey:** | JRMUNVKIHCOMHV-UHFFFAOYSA-M |
| **Formula:** | C16H36BrN |
| **SMILES:** | CCCC[N+](CCCC)(CCCC)CCCC.[Br-] |
| **Mol. weight [g/mol]:** | 322.37 |
| **CAS:** | 1643-19-2 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -540.30 ± 3.20 | kJ/mol | NIST Webbook |
| tf | 395.00 ± 1.00 | K | NIST Webbook |
| tf | 395.00 ± 0.50 | K | NIST Webbook |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cps | 447.80 | J/mol×K | 298.00 | NIST Webbook |
| cps | 412.00 | J/mol×K | 298.15 | NIST Webbook |
| hfust | 16.15 | kJ/mol | 395.00 | NIST Webbook |
| sfust | 40.89 | J/mol×K | 395.00 | NIST Webbook |

# Sources

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# Legend

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| **cps:** | Solid phase heat capacity |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfust:** | Enthalpy of fusion at a given temperature |
| **sfust:** | Entropy of fusion at a given temperature |
| **tf:** | Normal melting (fusion) point |

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