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| **nametrteyyffftfeye** | | | | |
| Energy and pseudo-*g*-tensor components (*g*x, *g*y, *g*z) of 5 ground Kramers doublets | | | | |
| Doublet no. | Energy / cm-1 | Pseudo-*g*-tensor components | | |
| *g*x | *g*y | *g*z |
| 1. | 0.000 | 0.8494 | 1.3991 | 4.9660 |
| 2. | 128.284 | 0.5839 | 2.3737 | 3.8966 |
| 3. | 204.734 | 0.1380 | 1.2099 | 2.5604 |
| 4. | 307.082 | 0.2471 | 2.3233 | 3.3877 |
| 5. | 358.237 | 0.1143 | 2.3722 | 3.4199 |

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| --- | --- | --- | --- | --- |
| Composition of the ground Kramers doublets in the |*m*J⟩ basis on the quantization axes within *J* = 9/2 manifold (contribution over 0.1% shown) | | | | |
| 1st doublet | 2nd doublet | 3rd doublet | 4th doublet | 5th doublet |
| 1.9% |–9/2⟩ 6.4% |–7/2⟩ 17.2% |–5/2⟩ 0.9% |–3/2⟩ 21.9% |–1/2⟩ 23.2% |+3/2⟩ 3.4% |+5/2⟩ 21.1% |+7/2⟩ 3.8% |+9/2⟩ | 40.9% |–9/2⟩ 3.8% |–7/2⟩ 20.5% |–5/2⟩ 8.8% |–3/2⟩ 8.4% |–1/2⟩ 1.0% |+1/2⟩ 12.2% |+3/2⟩ 2.4% |+5/2⟩ 1.2% |+7/2⟩ 0.7% |+9/2⟩ | 1.9% |–9/2⟩ 23.1% |–7/2⟩ 4.5% |–5/2⟩ 2.0% |–3/2⟩ 20.3% |–1/2⟩ 20.1% |+1/2⟩ 3.6% |+3/2⟩ 0.7% |+5/2⟩ 15.0% |+7/2⟩ 8.8% |+9/2⟩ | 14.6% |–9/2⟩ 4.2% |–7/2⟩ 19.8% |–5/2⟩ 8.3% |–3/2⟩ 3.2% |–1/2⟩ 0.1% |+1/2⟩ 27.5% |+5/2⟩ 11.5% |+7/2⟩ 10.7% |+9/2⟩ | 2.8% |–9/2⟩ 2.0% |–7/2⟩ 3.7% |–5/2⟩ 13.4% |–3/2⟩ 17.5% |–1/2⟩ 7.3% |+1/2⟩ 27.4% |+3/2⟩ 0.3% |+5/2⟩ 11.6% |+7/2⟩ 14.0% |+9/2⟩ |